

# TIGER Neo

## 72HL4-BDV

### 570-590 Watt

BIFACIAL MODULE WITH DUAL GLASS

N-type



### N-Type Technology

N-Type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.



### Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### HOT 2.0 Technology

N-type modules with JinkoSolar's HOT 2.0 technology offer better reliability and efficiency.



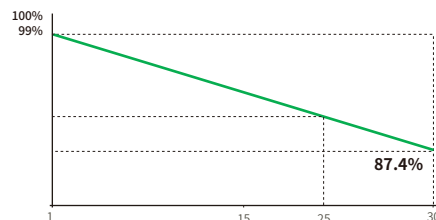
### Mechanical Load Enhanced

Certified to withstand:  
5400 Pa front side max static test load  
2400 Pa rear side max static test load



### Anti-PID guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.



**12 Year**  
Product  
Warranty

**30 Year**  
Linear Power  
Warranty

**1%**  
First-year  
Degradation

**0.4%**  
Annual  
Degradation  
Over 30 Years

- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems



EU-JKM570-590N-72HL4-BDV-F8-EN

# 72HL4-BDV 570-590 Watt

## Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	144 (72×2)
Dimensions	2278×1134×30 mm
Weight	31.0 kg
Front Glass	2.0 mm, Anti-Reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Output Cables	4.0 mm <sup>2</sup> (+): 400 mm , (-): 200 mm or Customized Length

## Packaging Configuration

Pallet Dimensions	2338×1140×1251 mm
Packing detail (Two pallets=One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

## Specifications (STC)

Maximum Power – Pmax [Wp]	570	575	580	585	590
Maximum Power Voltage – Vmp [V]	43.58	43.73	43.88	44.02	44.17
Maximum Power Current – Imp [A]	13.08	13.15	13.38	13.29	13.36
Open-circuit Voltage – Voc [V]	52.10	52.30	52.31	52.70	52.90
Short-circuit Current – Isc [A]	13.83	13.89	14.01	14.01	14.07
Module Efficiency STC [%]	22.07	22.26	22.45	22.65	22.84
Power Tolerance	0 ~ +3 %				
Temperature Coefficients of Pmax	-0.29 %/°C				
Temperature Coefficients of Voc	-0.25 %/°C				
Temperature Coefficients of Isc	0.045 %/°C				

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Specifications (NOCT)

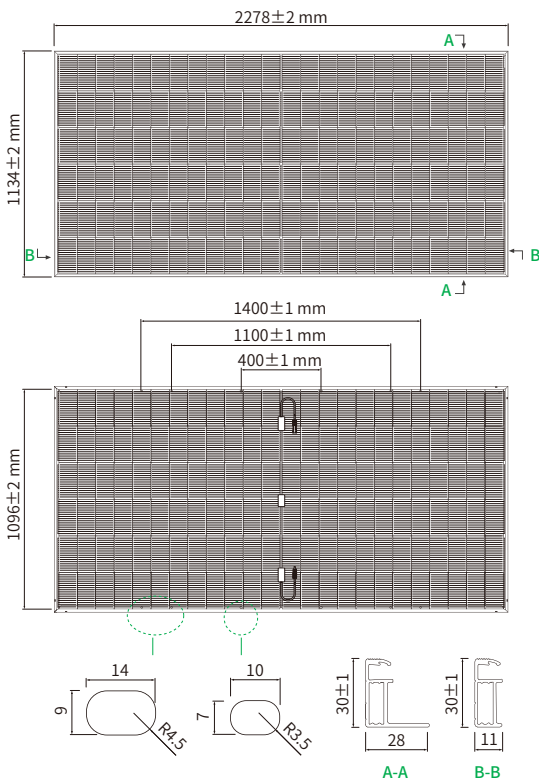
Maximum Power – Pmax [Wp]	430	433	437	441	445
Maximum Power Voltage – Vmp [V]	40.56	40.73	40.89	41.05	41.21
Maximum Power Current – Imp [A]	10.59	10.64	10.69	10.74	10.79
Open-circuit Voltage – Voc [V]	49.49	49.68	49.87	50.06	50.25
Short-circuit Current – Isc [A]	11.16	11.21	11.26	11.31	11.36

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## Application Conditions

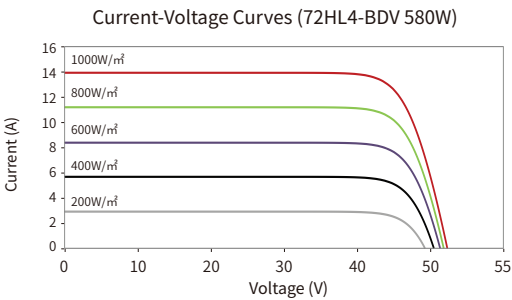
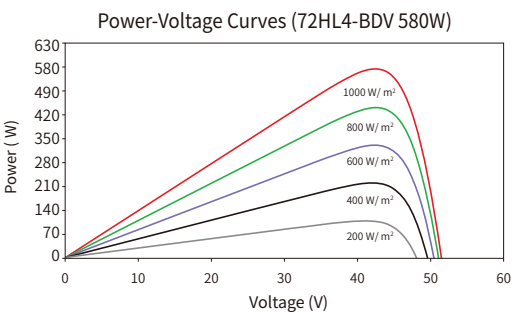
Operating Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature -NOCT	45±2 °C
Refer. Bifacial Factor	80±5 %

## Engineering Drawings



**Note:** For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

## Electrical Performance



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**Note:** Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

EU-JKM570-590N-72HL4-BDV-F8-EN

www.jinkosolar.com  
www.jinkosolar.eu

## CE DECLARATION OF CONFORMITY



Business name of the manufacturer: **Jinko Solar Co., Ltd.**

Full address of the manufacture: No.1 Yingbin Road, Economic Development Zone,  
Shangrao City, 334100 Jiangxi, P. R. China

### To whom it may concern

WE, Jinko Solar Co., Ltd. hereby declare under our sole responsibility that the product(s):

**DESCRIPTION:** Photovoltaic solar module

**BRAND:** JinkoSolar

#### **SINGLE GLASS MODULES 1500VDC SYSTEM VOLTAGE-MODULE TYPE (S):**

##### *Tiger Pro:*

JKMxxxM-78HL4-V, JKMxxxM-78HL4-S-V (xxx=565-605, in steps of 5, 156 cells)  
JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J, JKMxxxM-72HL4-S-V, JKMxxxM-72HL4-S-V-J  
(xxx=475-585, in steps of 5, 144 cells)  
JKMxxxM-66HL4-V, JKMxxxM-66HL4-S-V (xxx=440-505, in steps of 5, 132 cells)  
JKMxxxM-60HL4-V, JKMxxxM-60HL4-S-V (xxx=400-485, in steps of 5, 120 cells)  
JKMxxxM-54HL4-V, JKMxxxM-54HL4-S-V (xxx=360-430, in steps of 5, 108 cells)

MMxxx-78HLD-MBV (xxx=565-605, in steps of 5, 156 cells)  
MMxxx-72HLD-MBV (xxx=475-570, in steps of 5, 144 cells)

MMxxx-66HLD-MBV (xxx=440-505, in steps of 5, 132 cells)  
MMxxx-60HLD-MBV (xxx=400-470, in steps of 5, 120 cells)  
MMxxx-54HLD-MBV (xxx=360-420, in steps of 5, 108 cells)

JKMxxxM-78HL4-TV, JKMxxxM-78HL4-S-TV (xxx=555-595, in steps of 5, 156 cells)  
JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J, JKMxxxM-72HL4-S-TV, JKMxxxM-72HL4-S-TV-J  
(xxx=475-580, in steps of 5, 144 cells)  
JKMxxxM-66HL4-TV, JKMxxxM-66HL4-S-TV (xxx=440-500, in steps of 5, 132 cells)  
JKMxxxM-60HL4-TV, JKMxxxM-60HL4-S-TV (xxx=400-455, in steps of 5, 120 cells)  
JKMxxxM-54HL4-TV, JKMxxxM-54HL4-S-TV (xxx=360-410, in steps of 5, 108 cells)

JKMxxxM-72HL4-B-V, JKMxxxM-72HL4-S-B-V (xxx=510-535, in steps of 5, 144 cells)  
JKMxxxM-66HL4-B-V, JKMxxxM-66HL4-S-B-V (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxM-60HL4-B-V, JKMxxxM-60HL4-S-B-V (xxx=425-445, in steps of 5, 120 cells)  
JKMxxxM-54HL4-B-V, JKMxxxM-54HL4-S-B-V (xxx=380-400, in steps of 5, 108 cells)

#### Tiger Neo

JKMxxxN-78HL4-V (xxx=570-650, in steps of 5, 156 cells)  
JKMxxxN-72HL4-V (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-66HL4-V (xxx=445-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4-V (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-54HL4-V (xxx=365-455, in steps of 5, 108 cells)

JKMxxxN-78HL4-TV (xxx=570-645, in steps of 5, 156 cells)  
JKMxxxN-72HL4-TV (xxx=480-605, in steps of 5, 144 cells)  
JKMxxxN-66HL4-TV (xxx=440-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4-TV (xxx=400-480, in steps of 5, 120 cells)  
JKMxxxN-54HL4-TV (xxx=360-430, in steps of 5, 108 cells)

JKMxxxN-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
JKMxxxN-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxN-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
JKMxxxN-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)

JKMxxxN-66HL4M-V (xxx=600-620, in steps of 5, 132 cells)

#### Tiger Neo R

JKMxxxN-72HL4R-V (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-60HL4R-V (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-54HL4R-V (xxx=365-455, in steps of 5, 108 cells)  
JKMxxxN-72HL4R-TV (xxx=480-605, in steps of 5, 144 cells)



#### Tiger p-type 60

JKMxxxM-6TL3-V, JKMSxxxM-6TL3-V-TI, JKMxxxM-6TL3-S-V, JKMSxxxM-6TL3-V-MX3

(xxx=335-380, in steps of 5, 120 cells)

JKMxxxM-6TL3-TV, JKMxxxM-6TL3-S-TV (xxx=325-365, in steps of 5, 120 cells)

JKMxxxM-6TL3-B-V, JKMxxxM-6TL3-S-B-V, JKMSxxxM-6TL3-B-V-TI (xxx=320-365, in steps of 5, 120 cells)

#### Tiger n-type 60

JKMxxxN-6TL3-V, JKMSxxxN-6TL3-V-TI, JKMSxxxN-6TL3-V-MX3 (xxx=335-390, in steps of 5, 120 cells)

JKMxxxN-6TL3-TV, JKMxxxN-6TL3-S-TV (xxx=325-380, in steps of 5, 120 cells)

JKMxxxN-6TL3-B-V, JKMSxxxN-6TL3-B-V-TI, JKMxxxN-6TL3-S-B-V (xxx=320-365, in steps of 5, 120 cells)

#### Tiger p-type 66

JKMxxxM-6RL3-V, JKMxxxM-6RL3-V-J, JKMSxxxM-6RL3-V-TI, JKMxxxM-6RL3-S-V, JKMxxxM-6RL3-S-V-J, JKMSxxxM-6RL3-V-MX3 (xxx=360-415, in steps of 5, 132 cells)

JKMxxxM-6RL3-TV, JKMxxxM-6RL3-TV-J, JKMxxxM-6RL3-S-TV, JKMxxxM-6RL3-S-TV-J

(xxx=355-400, in steps of 5, 132 cells)

JKMxxxM-6RL3-B-V, JKMxxxM-6RL3-S-B-V, JKMSxxxM-6RL3-B-V-TI (xxx=360-405, in steps of 5, 132 cells)

#### Tiger n-type 66

JKMxxxN-6RL3-V, JKMxxxN-6RL3-V-J, JKMSxxxN-6RL3-V-TI, JKMSxxxN-6RL3-V-MX3

(xxx=360-420, in steps of 5, 132 cells)

JKMxxxN-6RL3-TV, JKMxxxN-6RL3-TV-J, JKMxxxN-6RL3-S-TV, JKMxxxN-6RL3-S-TV-J

(xxx=355-420, in steps of 5, 132 cells)

JKMxxxN-6RL3-B-V, JKMSxxxN-6RL3-B-V-TI, JKMxxxN-6RL3-S-B-V (xxx=360-405, in steps of 5, 132 cells)

### **SINGLE GLASS MODULES 1000VDC SYSTEM VOLTAGE-MODULE TYPE (S):**

#### Tiger Pro

JKMxxxM-72HL4, JKMxxxM-72HL4-J (xxx=475-585, in steps of 5, 144 cells)

JKMxxxM-66HL4 (xxx=440-505, in steps of 5, 132 cells)

JKMxxxM-60HL4 (xxx=400-485, in steps of 5, 120 cells)

JKMxxxM-54HL4 (xxx=360-430, in steps of 5, 108 cells)

MMxxx-72HLD-MB (xxx=475-570, in steps of 5, 144 cells)  
MMxxx-66HLD-MB (xxx=440-505, in steps of 5, 132 cells)  
MMxxx-60HLD-MB (xxx=400-470, in steps of 5, 120 cells)  
MMxxx-54HLD-MB (xxx=360-420, in steps of 5, 108 cells)

JKMxxxM-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
JKMxxxM-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxM-60HL4-B (xxx=425-445, in steps of 5, 120 cells)  
JKMxxxM-54HL4-B (xxx=380-425, in steps of 5, 108 cells)

#### Tiger Neo

JKMxxxN-78HL4 (xxx=570-650, in steps of 5, 156 cells)  
JKMxxxN-72HL4 (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-66HL4 (xxx=445-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4 (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-54HL4 (xxx=365-455, in steps of 5, 108 cells)

JKMxxxN-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxN-60HL4-B (xxx=425-470, in steps of 5, 120 cells)  
JKMxxxN-54HL4-B (xxx=380-450, in steps of 5, 108 cells)

JKMxxxN-66HL4M (xxx=600-620, in steps of 5, 132 cells)

#### Tiger Neo R

JKMxxxN-72HL4R (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-60HL4R (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-54HL4R, (xxx=365-455, in steps of 5, 108 cells)

JKMxxxN-54HL4R-B (xxx=380-450, in steps of 5, 108 cells)

JKMxxxN-78HL4R-TV (xxx=570-645, in steps of 5, 156 cells)

#### Tiger p-type 60

JKMxxxM-6TL3, JKMSxxxM-6TL3-TI, JKMSxxxM-6TL3-MX3 (xxx=335-380, in steps of 5, 120 cells)  
JKMxxxM-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
JKMxxxM-6TL3-B, JKMSxxxM-6TL3-B-TI, JKMSxxxM-6TL3-B-MX3 (xxx=320-365, in steps of 5, 120 cells)

#### Tiger n-type 60

JKMxxxN-6TL3, JKMSxxxN-6TL3-TI, JKMSxxxN-6TL3-MX3 (xxx=335-390, in steps of 5, 120 cells)  
JKMxxxN-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
JKMxxxN-6TL3-B, JKMSxxxN-6TL3-B-TI, JKMSxxxN-6TL3-B-MX3 (xxx=320-385, in steps of 5, 120 cells)

#### Tiger p-type 66

JKMxxxM-6RL3, JKMSxxxM-6RL3-J, JKMSxxxM-6RL3-TI, JKMSxxxM-6RL3-MX3 (xxx=360-415, in steps of 5, 132 cells)  
JKMxxxM-6RL3-T, JKMSxxxM-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells) JKMSxxxM-6RL3-B, JKMSxxxM-6RL3-B-TI, JKMSxxxM-6RL3-B-MX3 (xxx=360-405, in steps of 5, 132 cells)

#### Tiger n-type 66

JKMxxxN-6RL3, JKMSxxxN-6RL3-J, JKMSxxxN-6RL3-TI, JKMSxxxN-6RL3-MX3 (xxx=360-420, in steps of 5, 132 cells)  
JKMxxxN-6RL3-T, JKMSxxxN-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells)  
JKMxxxN-6RL3-B, JKMSxxxN-6RL3-B-TI, JKMSxxxN-6RL3-B-MX3 (xxx=360-425, in steps of 5, 132 cells)

### **DUAL GLASS MODULES 1500VDC SYSTEM VOLTAGE-MODULE TYPE (S):**

#### Tiger Neo

JKMxxxN-78HL4-BDV (xxx=570-645, in steps of 5, 156 cells)  
JKMxxxN-72HL4-BDV, JKMSxxxN-72HL4-BDV-J, JKMSxxxN-72HL4-BDV-U, JKMSxxxN-72HL4-BDX (xxx=480-610, in steps of 5, 144 cells)  
JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)  
JKMxxxN-60HL4-BDV (xxx=400-505, in steps of 5, 120 cells)  
JKMxxxN-54HL4-BDV (xxx=360-455, in steps of 5, 108 cells)  
JKMxxxN-66HL4M-BDV (xxx=590-620, in steps of 5, 132 cells)  
JKMxxxN-66HL5-BDV (xxx=625-710, in steps of 5, 132 cells)

#### Tiger Neo R

JKMxxxN-78HL4R-BDV (xxx=570-645, in steps of 5, 156 cells)  
JKMxxxN-72HL4R-BDV (xxx=480-610, in steps of 5, 144 cells)  
JKMxxxN-60HL4R-BDV (xxx=400-505, in steps of 5, 120 cells)  
JKMxxxN-54HL4R-BDV (xxx=360-455, in steps of 5, 108 cells)  
JKMxxxN-54HL4R-BDB (xxx=360-455, in steps of 5, 108 cells)

#### Tiger Pro

JKMxxxM-72HL4-BDVP, JKMSxxxM-72HL4-BDVP-J (xxx=500-575, in steps of 5, 144 cells)



JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)

**MANUFACTURER:** Jinko Solar Co., Ltd.

Are in conformity with the following standards:

**THE LOW VOLTAGE EUROPEAN DIRECTIVE 2014/35/EU.**

**THE ELECTROMANGNETIC COMPATIBILITY EUROPEAN DIRECTIVE 2014/30/EU.**  
(EN IEC 61000-6-3:2021 & EN IEC 61000-6-1:2019)

IEC 61215-1:2016

IEC 61215-1-1:2016

IEC 61215-2:2016

IEC 61730-1:2016

IEC 61730-2:2016

EN IEC 61730-1:2018

EN IEC 61730-1:2018/AC:2018-06

EN IEC 61730-2:2018

EN IEC 61730-2:2018/AC:2018-06

**CE MARK OF DATE: 2024**

The institute TÜV SÜD Product Service GmbH, Ridlerstraße 65, 80339 München has certified the product(s). The technical documentation and full compliance with the standards listed above proves the conformity of the product with the requirements of the above-mentioned EC Council directive. This document has been issued in English. In case of translation discrepancy of this document, the English version shall prevail.

Date of issue:

March 8<sup>th</sup> 2024

Place of issue

China

Title - Name -  
Signature

President: Gen Miao







Product Service

# CERTIFICATE

No. Z2 118443 0001 Rev. 13

**Holder of Certificate:** **Jinko Solar Co., Ltd.**  
No.1, Yingbin Road, Economic Development Zone  
334100 Shangrao City, Jiangxi  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono-Crystalline Silicon Photovoltaic Module**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704062217002-18

**Valid until:** 2029-03-13

**Date,** 2024-03-22

( Zhulin Zhang )

# CERTIFICATE

No. Z2 118443 0001 Rev. 13

## Model(s):

JKxxxM-66R5-BGV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66H5-BGV (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxN-78HL4-BDV, JKMxxxN-78HL4R-BDV, JKMxxxN-78HL4-BDV-J  
 (xxx=570-645, in steps of 5, 156 cells)  
 JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J, JKMxxxN-72HL4-BDV-U  
 JKMxxxN-72HL4R-BDV, JKMxxxN-72HL4-BDX  
 (xxx=480-610, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-60HL4R-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDB (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-BDV, JKMxxxN-7RL4-BDV-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-BDV, JKMxxxN-7TL4-BDV-J, JKMxxxN-7TL4R-BDV  
 (xxx=495-590, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-BDV (xxx=455-500, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-BDV (xxx=415-455, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-BDV (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72H-DV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-DV (xxx=325-345, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-BDVP, JKMxxxM-7RL4-BDVP-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-BDVP, JKMxxxM-72HL4-BDVP-J  
 (xxx=500-575, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-7TL4-BDVP, JKMxxxM-7TL4-BDVP-J  
 (xxx=500-565, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-BDV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-BDV (xxx=330-345, in steps of 5, 120 cells)  
 JKMxxxM-72HL-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-BDVP (xxx=380-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-BDVP (xxx=315-345, in steps of 5, 120 cells)  
 JKSN3-DDCA-xxx (xxx=405-435, in steps of 5, 156 cells)  
 JKSN3-CDCA-xxx (xxx=345-365, in steps of 5, 132 cells)  
 JKSM3-DDCA-xxx (xxx=405-430, in steps of 5, 156 cells)  
 JKSM3-CDCA-xxx (xxx=345-360, in steps of 5, 132 cells)  
 JKMxxxN-78H-BDV (xxx=415-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-BDV (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-BDV (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-7RL3-BDV-J (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-BDV (xxx=375-410, in steps of 5, 132 cells)  
 JKMxxxM-78H-BDVP (xxx=415-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-BDVP (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-BDVP, JKMxxxM-7RL3-BDVP-J  
 (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-BDVP, JKMxxxM-6RL3-BDVP-J  
 (xxx=375-390, in steps of 5, 132 cells)  
 JKMxxxM-78HL3-BDVP, JKMxxxM-78HL3-MBB-BDVP  
 (xxx=450-480, in steps of 5, 156 cells)  
 JKMxxxM-66HL3-BDVP, JKMxxxM-66HL3-MBB-BDVP  
 (xxx=380-405, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-BDVP (xxx=415-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-BDVP (xxx=345-380, in steps of 5, 120 cells)  
 JKMxxxM-72L-BDV (xxx=375-405, in steps of 5, 72 cells)  
 JKMxxxM-72-BDV (xxx=375-405, in steps of 5, 72 cells)

# CERTIFICATE

No. Z2 118443 0001 Rev. 13

JKMxxxM-60L-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-60-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-72L-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-72-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-60L-BDVP (xxx=305-340, in steps of 5, 60 cells)  
 JKMxxxM-60-BDVP (xxx=305-340, in steps of 5, 60 cells)  
 JKMxxxM-72-DV (xxx=385-405, in steps of 5, 72 cells)  
 JKMxxxM-78HL4-BDVP (xxx=570-595, in steps of 5, 156 cells)  
 JKBSxxxN-48HL4-BDV (xxx=330-380, in steps of 5, 96 cells)  
 JKBSxxxN-22.5HL4-BDV (xxx=155-180, in steps of 5, 45 cells)  
 JKBSxxxM-48HL4-BDVP (xxx=335-375, in steps of 5, 96 cells)  
 JKBSxxxM-22.5HL4-BDVP (xxx=160-175, in steps of 5, 45 cells)  
 JKMxxxN-60HL4-MDV (xxx=450-505, in steps of 5, 120 cells)  
 JKMxxxN-60HL4R-MDV (xxx=450-505, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-MDV (xxx=405-450, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-MDV (xxx=405-450, in steps of 5, 108 cells)  
 JKxxxN-66H5-BGV (xxx=625-710, in steps of 5, 132 cells)  
 JKMxxxN-66HL5-BDV (xxx=625-710, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-MDVP (xxx=450-465, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
 JKMxxxM-5RL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
 JKMxxxN-5RL4-MDV (xxx=420-430, in steps of 5, 108 cells)  
 JKMxxxN-72HL4U-BDV (xxx=590-610, in steps of 5, 144 cells)  
 JKMxxxN-66HL4M-BDV (xxx=590-620, in steps of 5, 132 cells)  
 JKBSxxxN-48HL4-BDVW, (xxx=370-395, in steps of 5, 96 cells)  
 xxx is standing for rated output power at STC

## Parameters:

Fire Safety Class:	Class C according to UL790
Safety Class:	Class II
Max. System Voltage:	1500V DC
Construction:	Framed or frameless, double glass with Junction box, cable and connector.

## Production

### Facility(ies):

074043, 105416, 115863, 115864, 115883, 115858,  
 115861, 116025, 119488, 075612, 121280, 122742,  
 115860, 115862, 004170, 118612, 119487, 115859,  
 118443

## Tested according to:

IEC 61215-1:2016  
 IEC 61215-1-1:2016  
 IEC 61215-2:2016  
 IEC 61730-1:2016  
 IEC 61730-2:2016  
 EN IEC 61730-1:2018  
 EN IEC 61730-1:2018/AC:2018-06  
 EN IEC 61730-2:2018  
 EN IEC 61730-2:2018/AC:2018-06





Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

**Holder of Attestation:** **Jinko Solar Co., Ltd.**

No.1, Yingbin Road, Economic Development Zone  
334100 Shangrao City, Jiangxi  
PEOPLE'S REPUBLIC OF CHINA

**Name of Object:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono Crystalline Silicon Photovoltaic (PV) Modules**

This Attestation of Conformity is issued on a voluntary basis according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

4840922243904

**Date,** 2024-01-08

( Ming Gu )

Page 1 of 6

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



TUV®



Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

## Model(s):

JKMxxxM-72L-BDV,  
JKMxxxM-72-BDV,  
(xxx=375-405, in steps of 5, 72 cells)

JKMxxxM-72HL-BDV,  
JKMxxxM-72H-BDV,  
(xxx=390-410, in steps of 5, 144 cells)

JKMxxxM-60L-BDV,  
JKMxxxM-60-BDV,  
(xxx=310-335, in steps of 5, 60 cells)

JKMxxxM-60HL-BDV,  
JKMxxxM-60H-BDV,  
(xxx=325-340, in steps of 5, 120 cells)

JKMxxxM-72L-BDVP,  
JKMxxxM-72-BDVP,  
(xxx=370-410, in steps of 5, 72 cells)

JKMxxxM-72HL-BDVP,  
JKMxxxM-72H-BDVP,  
(xxx=375-430, in steps of 5, 144 cells)

JKMxxxM-60L-BDVP,  
JKMxxxM-60-BDVP,  
(xxx=305-340, in steps of 5, 60 cells)

JKMxxxM-60HL-BDVP,  
JKMxxxM-60H-BDVP,  
(xxx=310-355, in steps of 5, 120 cells)

JKMxxxN-72H-MBB-BDV,  
(xxx=390-415, in steps of 5, 144 cells)

JKMxxxN-60H-MBB-BDV,  
(xxx=330-345, in steps of 5, 120 cells)

JKMxxxM-72H-MBB-BDVP,  
(xxx=380-415, in steps of 5, 144 cells)

JKMxxxM-60H-MBB-BDVP,  
(xxx=315-345, in steps of 5, 120 cells)

JKS3-DDCA-xxx,  
(xxx=405-435, in steps of 5, 156 cells)

JKS3-CDCA-xxx,  
(xxx=345-365, in steps of 5, 132 cells)

Page 2 of 6

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TUV®



Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

## Model(s):

JKSM3-DDCA-xxx,  
(xxx=405-430, in steps of 5, 156 cells)

JKSM3-CDCA-xxx,  
(xxx=345-360, in steps of 5, 132 cells)

JKMxxxM-78H-BDVP,  
(xxx=415-455, in steps of 5, 156 cells)

JKMxxxM-66H-BDVP,  
(xxx=350-385, in steps of 5, 132 cells)

JKMxxxN-78H-BDV,  
(xxx=415-460, in steps of 5, 156 cells)

JKMxxxN-66H-BDV,  
(xxx=350-385, in steps of 5, 132 cells)

JKMxxxM-7RL3-BDVP,  
JKMxxxM-7RL3- BDVP-J,  
(xxx=440-465, in steps of 5, 156 cells)

JKMxxxM-6RL3- BDVP,  
JKMxxxM-6RL3- BDVP-J,  
(xxx=375-390, in steps of 5, 132 cells)

JKMxxxN-7RL3-BDV,  
JKMxxxN-7RL3-BDV-J  
(xxx=440-490, in steps of 5, 156 cells)

JKMxxxN-6RL3-BDV,  
(xxx=375-410, in steps of 5, 132 cells)

JKMxxxM-78HL3-BDVP,  
JKMxxxM-78HL3-MBB-BDVP,  
(xxx=450-480, in steps of 5, 156 cells)

JKMxxxM-66HL3-BDVP,  
JKMxxxM-66HL3-MBB-BDVP,  
(xxx=380-405, in steps of 5, 132 cells)

JKMxxxM-72HLM-BDVP,  
(xxx=415-460, in steps of 5, 144 cells)

JKMxxxM-60HLM-BDVP,  
(xxx=345-380, in steps of 5, 120 cells)

Page 3 of 6

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.







Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

## Model(s):

JKMxxxM-78HL4-BDVP,  
(xxx=570-595, in steps of 5, 132 cells)

JKMxxxM-72HL4-BDVP,  
JKMxxxM-72HL4-BDVP-J,  
(xxx=500-575, in steps of 5, 144 cells)

JKMxxxM-66HL4-BDVP,  
(xxx=460-500, in steps of 5, 132 cells)

JKMxxxM-60HL4-BDVP,  
(xxx=420-455, in steps of 5, 120 cells)

JKMxxxM-54HL4-BDVP,  
(xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-7RL4-BDVP,  
JKMxxxM-7RL4-BDVP-J,  
(xxx=535-595, in steps of 5, 156 cells)

JKMxxxM-7TL4-BDVP,  
JKMxxxM-7TL4-BDVP-J,  
(xxx=500-565, in steps of 5, 144 cells)

JKMxxxM-6RL4-BDVP,  
(xxx=460-500, in steps of 5, 132 cells)

JKMxxxM-6TL4-BDVP,  
(xxx=420-455, in steps of 5, 120 cells)

JKMxxxM-5RL4-BDVP,  
(xxx=375-410, in steps of 5, 108 cells)

JKMxxxN-78HL4-BDV,  
JKMxxxN-78HL4-BDV-J  
JKMxxxN-78HL4R-BDV  
(xxx=570-645, in steps of 5, 156 cells)

JKMxxxN-72HL4-BDV,  
JKMxxxN-72HL4-BDV-J,  
JKMxxxN-72HL4-BDV-U  
JKMxxxN-72HL4R-BDV  
(xxx=480-610, in steps of 5, 144 cells)

Page 4 of 6

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Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

## Model(s):

JKMxxxN-66HL4-BDV,  
(xxx=440-520, in steps of 5, 132 cells)

JKMxxxN-60HL4-BDV,  
JKMxxxN-60HL4R-BDV  
(xxx=400-505, in steps of 5, 120 cells)

JKMxxxN-54HL4-BDV,  
JKMxxxN-54HL4R-BDV  
(xxx=360-455, in steps of 5, 108 cells)

JKBSxxxN-48HL4-BDV,  
(xxx=330-380, in steps of 5, 96 cells)

JKBSxxxN-22.5HL4-BDV,  
(xxx=155-180, in steps of 5, 45 cells)

JKMxxxN-7RL4-BDV,  
JKMxxxN-7RL4-BDV-J,  
(xxx=535-595, in steps of 5, 156 cells)

JKMxxxN-7TL4-BDV,  
JKMxxxN-7TL4R-BDV  
JKMxxxN-7TL4-BDV-J,  
(xxx=495-590, in steps of 5, 144 cells)

JKMxxxN-6RL4-BDV,  
(xxx=455-500, in steps of 5, 132 cells)

JKMxxxN-6TL4-BDV,  
(xxx=415-455, in steps of 5, 120 cells)

JKMxxxN-5RL4-BDV,  
(xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-72H-DV,  
(xxx=390-415, in steps of 5, 144 cells)

JKMxxxM-60H-DV,  
(xxx=325-345, in steps of 5, 120 cells)

JKMxxxM-72-DV,  
(xxx=385-405, in steps of 5, 72 cells)

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



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Product Service

# Attestation of Conformity

No. E8A 118443 0008 Rev. 03

## Model(s):

JKxxxM-66R5-BGV,  
(xxx=630-665, in steps of 5, 132 cells)

JKxxxM-66H5-BGV,  
(xxx=635-670, in steps of 5, 132 cells)

JKBSxxxM-48HL4-BDVP  
(xxx=335-375, in steps of 5, 96 cells)

JKBSxxxM-22.5HL4-BDVP  
(xxx=160-175, in steps of 5, 45 cells)

JKMxxxN-60HL4-MDV,  
JKMxxxN-60HL4R-MDV  
(xxx=450-505, in steps of 5, 120 cells)

JKMxxxN-54HL4-MDV  
JKMxxxN-54HL4R-MDV  
(xxx=405-450, in steps of 5, 108 cells)

JKxxxN-66H5-BGV  
(xxx=625-710, in steps of 5, 132 cells)

JKMxxxM-60HL4-MDVP  
(xxx=450-465, in steps of 5, 120 cells)

JKMxxxM-54HL4-MDVP  
(xxx=405-415, in steps of 5, 108 cells)

JKMxxxM-5RL4-MDVP  
(xxx=405-415, in steps of 5, 108 cells)

JKMxxxN-5RL4-MDV  
(xxx=420-430, in steps of 5, 108 cells)

JKMxxxN-66HL4M-BDV  
(xxx=590-620, in steps of 5, 132 cells)

JKMxxxN-72HL4U-BDV  
(xxx=590-610, in steps of 5, 144 cells)

JKBSxxxN-48HL4-BDVW  
(xxx=370-395, in steps of 5, 96 cells)

## Description of

### Object:

Maximum Power (Pmax): 610W  
Maximum System Voltage: 1500V DC  
Protection Class: II

### Tested

### according to:

EN IEC 61000-6-3:2021  
EN IEC 61000-6-1:2019

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



TUV®





Product Service

# Attestation of Conformity

No. N8A 118443 0002 Rev. 10

**Holder of Attestation:** **Jinko Solar Co., Ltd.**

No.1, Yingbin Road, Economic Development Zone  
334100 Shangrao City, Jiangxi  
PEOPLE'S REPUBLIC OF CHINA

**Product:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono-Crystalline Silicon Photovoltaic Module**

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

704062217002-17

**Date,** 2024-02-29

( Zhulin Zhang )

Page 1 of 3

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



Product Service

# Attestation of Conformity

No. N8A 118443 0002 Rev. 10

## Model(s):

JKxxxM-66R5-BGV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66H5-BGV (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxN-78HL4-BDV, JKMxxxN-78HL4R-BDV, JKMxxxN-78HL4-BDV-J  
 (xxx=570-645, in steps of 5, 156 cells)  
 JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J, JKMxxxN-72HL4-BDV-U  
 JKMxxxN-72HL4R-BDV, JKMxxxN-72HL4-BDX  
 (xxx=480-610, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-60HL4R-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDB (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-BDV, JKMxxxN-7RL4-BDV-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-BDV, JKMxxxN-7TL4-BDV-J, JKMxxxN-7TL4R-BDV (xxx=495-590, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-BDV (xxx=455-500, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-BDV (xxx=415-455, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-BDV (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72H-DV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-DV (xxx=325-345, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-BDVP, JKMxxxM-7RL4-BDVP-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-BDVP, JKMxxxM-72HL4-BDVP-J  
 (xxx=500-575, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-7TL4-BDVP, JKMxxxM-7TL4-BDVP-J  
 (xxx=500-565, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-BDV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-BDV (xxx=330-345, in steps of 5, 120 cells)  
 JKMxxxM-72HL-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-BDVP (xxx=380-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-BDVP (xxx=315-345, in steps of 5, 120 cells)  
 JKSN3-DDCA-xxx (xxx=405-435, in steps of 5, 156 cells)  
 JKSN3-CDCA-xxx (xxx=345-365, in steps of 5, 132 cells)  
 JKSM3-DDCA-xxx (xxx=405-430, in steps of 5, 156 cells)  
 JKSM3-CDCA-xxx (xxx=345-360, in steps of 5, 132 cells)  
 JKMxxxN-78H-BDV (xxx=415-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-BDV (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-BDV (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-7RL3-BDV-J (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-BDV (xxx=375-410, in steps of 5, 132 cells)  
 JKMxxxM-78H-BDVP (xxx=415-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-BDVP (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-BDVP, JKMxxxM-7RL3-BDVP-J  
 (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-BDVP, JKMxxxM-6RL3-BDVP-J  
 (xxx=375-390, in steps of 5, 132 cells)

Page 2 of 3

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



Product Service

# Attestation of Conformity

No. N8A 118443 0002 Rev. 10

JKMxxxM-78HL3-BDVP, JKMxxxM-78HL3-MBB-BDVP  
(xxx=450-480, in steps of 5, 156 cells)  
JKMxxxM-66HL3-BDVP, JKMxxxM-66HL3-MBB-BDVP  
(xxx=380-405, in steps of 5, 132 cells)  
JKMxxxM-72HLM-BDVP (xxx=415-460, in steps of 5, 144 cells)  
JKMxxxM-60HLM-BDVP (xxx=345-380, in steps of 5, 120 cells)  
JKMxxxM-72L-BDV (xxx=375-405, in steps of 5, 72 cells)  
JKMxxxM-72-BDV (xxx=375-405, in steps of 5, 72 cells)  
JKMxxxM-60L-BDV (xxx=310-335, in steps of 5, 60 cells)  
JKMxxxM-60-BDV (xxx=310-335, in steps of 5, 60 cells)  
JKMxxxM-72L-BDVP (xxx=370-410, in steps of 5, 72 cells)  
JKMxxxM-72-BDVP (xxx=370-410, in steps of 5, 72 cells)  
JKMxxxM-60L-BDVP (xxx=305-340, in steps of 5, 60 cells)  
JKMxxxM-60-BDVP (xxx=305-340, in steps of 5, 60 cells)  
JKMxxxM-72-DV (xxx=385-405, in steps of 5, 72 cells)  
JKMxxxM-78HL4-BDVP (xxx=570-595, in steps of 5, 156 cells)  
JKBSxxxN-48HL4-BDV (xxx=330-380, in steps of 5, 96 cells)  
JKBSxxxN-22.5HL4-BDV (xxx=155-180, in steps of 5, 45 cells)  
JKBSxxxM-48HL4-BDVP (xxx=335-375, in steps of 5, 96 cells)  
JKBSxxxM-22.5HL4-BDVP (xxx=160-175, in steps of 5, 45 cells)  
JKMxxxN-60HL4-MDV (xxx=450-505, in steps of 5, 120 cells)  
JKMxxxN-60HL4R-MDV (xxx=450-505, in steps of 5, 120 cells)  
JKMxxxN-54HL4-MDV (xxx=405-450, in steps of 5, 108 cells)  
JKMxxxN-54HL4R-MDV (xxx=405-450, in steps of 5, 108 cells)  
JKxxxN-66H5-BGV (xxx=625-710, in steps of 5, 132 cells)  
JKMxxxN-66HL5-BDV (xxx=625-710, in steps of 5, 132 cells)  
JKMxxxM-60HL4-MDVP (xxx=450-465, in steps of 5, 120 cells)  
JKMxxxM-54HL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
JKMxxxM-5RL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
JKMxxxN-5RL4-MDV (xxx=420-430, in steps of 5, 108 cells)  
JKMxxxN-72HL4U-BDV (xxx=590-610, in steps of 5, 144 cells)  
JKMxxxN-66HL4M-BDV (xxx=590-620, in steps of 5, 132 cells)  
JKBSxxxN-48HL4-BDVW, (xxx=370-395, in steps of 5, 96 cells)  
xxx is standing for rated output power at STC

## Parameters:

Fire Safety Class:	Class C according to UL790.
Safety Class:	Class II
Max. System Voltage:	1500V DC
Construction:	Framed or frameless, double glass with Junction box, cable and connector.

## Tested according to:

EN IEC 61730-1:2018  
EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018  
EN IEC 61730-2:2018/AC:2018-06

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



# 证书

根据

**IEC 62941: 2019**  
(Edition 1.0 2019-12)

基于满足上述规范，证书授予

**晶科能源股份有限公司**

**中国江西省上饶市经济开发区晶科大道 1 号, 邮政编码: 334100**

另有制造现场延伸和外部场所，请参考附件 1

范围

**太阳能电池组件的设计和制造**

经 IEC 61215 标准族认证的光伏组件清单见附件 2

证书编号. CN-44 101 1688 0002-001

审核报告编号. 2.5-CN1242/2022

有效期起始日 2023-02-08

证书有效期至 2026-02-07

初次认证日期 2017-02-08



打印于  
杭州汉德质量认证服务有限公司  
上海分公司

之认证机构  
杭州汉德质量认证服务有限公司

签发日期: 2022-12-29

这份证书依据杭州汉德质量认证服务有限公司之规定认证和证明并且是受年度审查的规定。

杭州汉德质量认证服务有限公司

中国浙江省杭州市上城区九环路 9 号 1 幢 B409, 邮编: 310019

[www.tuv-nord.com.cn](http://www.tuv-nord.com.cn)

# CERTIFICATE

According to

**IEC 62941: 2019**  
(Edition 1.0 2019-12)

Evidence of conformity with the above specification has been furnished and is certified for

**Jinko Solar Co., Ltd.**

**No.1 Jinko Road, Shangrao Economic Development Zone, 334100  
Jiangxi, P.R. China**

**with the extended manufacturing site & remote functions according to the annex 1**

Scope

**Design and Manufacturing of Photovoltaic Solar Modules**

With the attached list of photovoltaic (PV) modules certified to IEC 61215 series

Certificate Registration No. CN-44 101 1688 0002-001  
Audit Report No. 2.5-CN1242/2022

Valid from 2022-12-29  
Valid until 2026-02-07  
Initial Certification 2017-02-08

A stylized, handwritten signature in black ink.

Printing at  
TÜV NORD (Hangzhou) Co., Ltd.  
Shanghai Branch

Certification Body  
at TÜV NORD (Hangzhou) Co., Ltd.

Issue Date: 2022-12-29

This certification was conducted in accordance with the TÜV NORD (Hangzhou) Co., Ltd. auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD (Hangzhou) Co., Ltd.  
Room B409, Building 1, No.9 Jiujuan Road, Shangcheng District, Hangzhou, Zhejiang Province, 310019, China  
[www.tuv-nord.com.cn](http://www.tuv-nord.com.cn)

# ANNEX 1

to Certificate Registration No. CN-44 101 1688 0002-001

**IEC 62941:2019**

(Edition 1.0 2019-12)

**Jinko Solar Co., Ltd.**

**No.1 Jinko Road, Shangrao Economic Development Zone, 334100  
Jiangxi, P.R. China**

**Extended Manufacturing Site**

Jinko Solar ( Shangrao ) Co., Ltd.

No.1,Yingbin Road, Economic Development Zone, Shangrao  
City, 334100 Jiangxi, P.R. China

**Remote Functions**

Jinko Solar (Shanghai) Management Co., Ltd.

Jinko Center, No.1466, Shenchang Road, Minhang District,  
Shanghai City, 201106, P. R. China

Zhejiang Jinko Solar Co., Ltd.

No.58, Yuanxi Road, Yuanhua Town, Haining City, Jiaxing City,  
Zhejiang Province, 314416, P. R. China

End of the list

**Function**

Sales, Contract Review, Customer Service

Product Design



Certification Body  
at TÜV NORD (Hangzhou) Co., Ltd.

Printing at  
TÜV NORD (Hangzhou) Co., Ltd.  
Shanghai Branch

Issue Date: 2022-12-29

This certification was conducted in accordance with the TÜV NORD (Hangzhou) Co., Ltd. auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD (Hangzhou) Co., Ltd.  
Room B409, Building 1, No.9 Jiujuan Road, Shangcheng District, Hangzhou, Zhejiang Province, 310019, China  
[www.tuv-nord.com.cn](http://www.tuv-nord.com.cn)

## 附件 1

证书编号. CN-44 101 1688 0002-001

**IEC 62941: 2019**  
(Edition 1.0 2019-12)

依据杭州汉德质量认证服务有限公司之规定, 特此证明

**晶科能源股份有限公司**

**中国江西省上饶市经济开发区晶科大道 1 号, 邮政编码: 334100**

### 制造现场延伸

晶科能源（上饶）有限公司

中国江西省上饶市经济技术开发区迎宾大道 1 号, 邮编: 334100

### 外部场所

晶科绿能（上海）管理有限公司

中国上海市闵行区申长路 1466 号晶科中心, 邮编: 201106

浙江晶科能源有限公司

中国浙江省嘉兴市海宁市袁花镇袁溪路 58 号, 邮编: 314416

### 职能

销售, 合同评审, 顾客服务

产品设计

列表完



之认证机构  
杭州汉德质量认证服务有限公司

杭州汉德质量认证服务有限公司  
中国浙江省杭州市上城区九环路 9 号 1 幢 B409, 邮编: 310019  
[www.tuv-nord.com.cn](http://www.tuv-nord.com.cn)

打印于:  
杭州汉德质量认证服务有限公司上海分公司  
签发日期: 2022-12-29



## 附件 2

证书编号. CN-44 101 1688 0002-001

IEC 62941: 2019

(Edition 1.0 2019-12)

经 IEC / EN 61215:2016 认证的光伏组件清单

● **Max. system voltage (Up to 1000VDC)**

**With ½ cut of mono c-Si cells:**

JKMxxxN-72HL4R (xxx=485-600, in steps of 5, 144 cells)  
JKMxxxN-60HL4R (xxx=405-500, in steps of 5, 120 cells)  
JKMxxxN-54HL4R (xxx=365-455, in steps of 5, 108 cells)  
JKMxxxN-54HL4R-B (xxx=380-450, in steps of 5, 108 cells)  
JKMxxxN-78HL4 (xxx=570-625, in steps of 5, 156 cells)  
JKMSxxxM-6RL3-MX3 (xxx=360-415, in steps of 5, 132 cells)  
JKMSxxxN-6RL3-MX3 (xxx=360-420, in steps of 5, 132 cells)  
JKMSxxxN-6TL3-MX3 (xxx=335-390, in steps of 5, 120 cells)  
JKMSxxxM-6RL3-B-MX3 (xxx=360-405, in steps of 5, 132 cells)  
JKMSxxxN-6RL3-B-MX3 (xxx=360-425, in steps of 5, 132 cells)  
JKMSxxxN-6TL3-B-MX3 (xxx=320-385, in steps of 5, 120 cells)  
JKxxxM-66R5-MW (xxx=630-665, in steps of 5, 132 cells)  
JKxxxM-66H5-MW (xxx=635-670, in steps of 5, 132 cells)  
JKMxxxM-36H (xxx=195-205, in steps of 5, 72 cells)  
MMxxx-72HLD-MB (xxx=475-570, in steps of 5, 144 cells)  
MMxxx-66HLD-MB (xxx=440-505, in steps of 5, 132 cells)  
MMxxx-60HLD-MB (xxx=400-470, in steps of 5, 120 cells)  
MMxxx-54HLD-MB (xxx=360-420, in steps of 5, 108 cells)  
MMxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
MMxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
MMxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
MMxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
MMxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
JKMxxxN-48H-MBB-B (xxx=255-265, in steps of 5, 96 cells)  
JKMxxxN-32H-MBB-B (xxx=170-175, in steps of 5, 64 cells)  
JKMxxxN-72HL3-MBB-B (xxx=400-445, in steps of 5, 144 cells)  
JKMxxxN-60HL3-MBB-B (xxx=330-370, in steps of 5, 120 cells)  
JKMxxxN-48HL3-MBB-B (xxx=270-295, in steps of 5, 96 cells)  
JKMxxxN-32HL3-MBB-B (xxx=180-195, in steps of 5, 64 cells)  
MNxxx-72HLD-MB (xxx=485-555, in steps of 5, 144 cells)  
MNxxx-66HLD-MB (xxx=445-505, in steps of 5, 132 cells)  
MNxxx-60HLD-MB (xxx=405-460, in steps of 5, 120 cells)

MNxxx-54HLD-MB (xxx=365-415, in steps of 5, 108 cells)  
 MNxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
 MNxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
 JKMSxxxM-78H-MBB-MX3 (xxx=440-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-MBB-MX3 (xxx=370-390, in steps of 5, 132 cells)  
 JKMSxxxM-72H-MBB-MX3 (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-MX3 (xxx=320-355, in steps of 5, 120 cells)  
 JKMxxxM-72HLM-B, JKMSxxxM-72HLM-B-MX3 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B, JKMSxxxM-60HLM-B-MX3 (xxx=350-370, in steps of 5, 120 cells)  
 JKMSxxxM-6TL3-MX3 (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxM-6TL3-B-MX3 (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B (xxx=380-405, in steps of 5, 108 cells)  
 JKMxxxN-72HL4 (xxx=485-600, in steps of 5, 144 cells)  
 JKMxxxN-66HL4 (xxx=445-525, in steps of 5, 132 cells)  
 JKMxxxN-60HL4 (xxx=405-500, in steps of 5, 120 cells)  
 JKMxxxN-54HL4 (xxx=365-455, in steps of 5, 108 cells)  
 JKMxxxN-7RL4 (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxN-7TL4 (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4 (xxx=375-460, in steps of 5, 108 cells)  
 JKMxxxN-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-B (xxx=425-470, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-B (xxx=380-450, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B (xxx=375-455, in steps of 5, 108 cells)  
 MMxxx-7RLC-MB, SMMxxx-7RLC-MB-TI (xxx=430-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-MB, SMMxxx-6RLC-MB-TI (xxx=360-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-MB, SMMxxx-6TLC-MB-TI (xxx=335-365, in steps of 5, 120 cells)  
 MMxxx-72HLA-MB-MBB, SMMxxx-72HLA-MB-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MB-MBB, SMMxxx-60HLA-MB-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 MMxxx-7RLC-AB, SMMxxx-7RLC-AB-TI (xxx=425-480, in steps of 5, 156 cells)  
 MMxxx-6RLC-AB, SMMxxx-6RLC-AB-TI (xxx=360-405, in steps of 5, 132 cells)  
 MMxxx-6TLC-AB, SMMxxx-6TLC-AB-TI (xxx=320-365, in steps of 5, 120 cells)

MMxxx-78HLA-MB-MBB (xxx=440-465, in steps of 5, 156 cells)  
 MMxxx-66HLA-MB-MBB (xxx=370-390, in steps of 5, 132 cells)  
 MNxxx-7RLC-MB, SMNxxx-7RLC-MB-TI (xxx=430-490, in steps of 5, 156 cells)  
 MNxxx-6RLC-MB, SMNxxx-6RLC-MB-TI (xxx=360-410, in steps of 5, 132 cells)  
 MNxxx-6TLC-MB, SMNxxx-6TLC-MB-TI (xxx=335-375, in steps of 5, 120 cells)  
 MNxxx-72HLA-MB-MBB, SMNxxx-72HLA-MB-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MNxxx-60HLA-MB-MBB, SMNxxx-60HLA-MB-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
 MNxxx-7RLC-AB, SMNxxx-7RLC-AB-TI (xxx=425-480, in steps of 5, 156 cells)  
 MNxxx-6RLC-AB, SMNxxx-6RLC-AB-TI (xxx=360-405, in steps of 5, 132 cells)  
 MNxxx-6TLC-AB, SMNxxx-6TLC-AB-TI (xxx=320-365, in steps of 5, 120 cells)  
 MNxxx-72HLA-AB-MBB, SMNxxx-72HLA-AB-MBB-TI (xxx=380-400, in steps of 5, 144 cells)  
 MNxxx-60HLA-AB-MBB, SMNxxx-60HLA-AB-MBB-TI (xxx=315-330, in steps of 5, 120 cells)  
 MMxxx-72HLM-MB (xxx=420-465, in steps of 5, 144 cells)  
 MMxxx-60HLM-MB (xxx=350-385, in steps of 5, 120 cells)  
 JKMxxxM-78H-MBB (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-MBB (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HL4, JKMxxxM-72HL4-J (xxx=475-570, in steps of 5, 144 cells)  
 JKMxxxM-66HL4 (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4 (xxx=400-470, in steps of 5, 120 cells)  
 JKMxxxM-54HL4 (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-7RL4, JKMxxxM-7RL4-J (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxM-7TL4, JKMxxxM-7TL4-J (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxM-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4 (xxx=375-405, in steps of 5, 108 cells)  
 MMxxx-72HLA-MB; MMxxx-72HLA-AB; SMMxxx-72HLA-MB-TI; SMMxxx-72HLA-AB-TI  
 (xxx=335-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MB; MMxxx-60HLA-AB; SMMxxx-60HLA-MB-TI; SMMxxx-60HLA-AB-TI  
 (xxx=270-350, in steps of 5, 120 cells)  
 SMMxxx-72HLA-MB-MX3; SMMxxx-72HLA-AB-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 SMMxxx-60HLA-MB-MX3; SMMxxx-60HLA-AB-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 MMxxx-72HLA-BB (xxx=375-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-BB (xxx=315-355, in steps of 5, 120 cells)  
 MMxxx-78HLA-MB; SMMxxx-78HLA-MB-TI (xxx=405-465, in steps of 5, 156 cells)  
 MMxxx-78HLA-AB; SMMxxx-78HLA-AB-TI (xxx=405-435, in steps of 5, 156 cells)  
 MMxxx-66HLA-MB; SMMxxx-66HLA-MB-TI (xxx=340-390, in steps of 5, 132 cells)  
 MMxxx-66HLA-AB; SMMxxx-66HLA-AB-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-B; JKMSxxxN-6TL3-B-TI (xxx=320-385, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-B; JKMSxxxM-6TL3-B-TI (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-78H; JKMSxxxM-78H-TI (xxx=450-465, in steps of 5, 156 cells)  
 JKMxxxM-66H; JKMSxxxM-66H-TI (xxx=380-390, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B; JKMSxxxN-7RL3-B-TI (xxx=455-480, in steps of 5, 156 cells) JKMxxxN-6RL3-B; JKMSxxxN-6RL3-B-TI (xxx=360-425, in steps of 5, 132 cells) JKMxxxM-7RL3-B; JKMSxxxM-7RL3-B-TI (xxx=455-480, in steps of 5, 156 cells) JKMxxxM-6RL3-B; JKMSxxxM-6RL3-B-TI (xxx=385-405, in steps of 5, 132 cells) JKMxxxM-72HLM; JKMSxxxM-72HLM-MX3 (xxx=420-465, in steps of 5, 144 cells) JKMxxxM-60HLM; JKMSxxxM-60HLM-MX3 (xxx=350-385, in steps of 5, 120 cells) JKMxxxM-72HB; JKMxxxM-72HBL (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HB; JKMxxxM-60HBL (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-T; JKMxxxM-72HL-T (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-T; JKMxxxM-60HL-T (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxN-72H-T; JKMxxxN-72HL-T (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-T; JKMxxxN-60HL-T (xxx=315-355, in steps of 5, 120 cells)



JKMxxxM-72H-MBB (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MX3; JKMSxxxM-72HB-MX3; JKMSxxxM-72HL-MX3; JKMSxxxM-72HBL-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MX3; JKMSxxxM-60HB-MX3; JKMSxxxM-60HL-MX3; JKMSxxxM-60HBL-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxM-72H; JKMxxxM-72HL (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60H; JKMxxxM-60HL (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-T; (xxx=385-405, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-T; (xxx=320-335, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-T; (xxx=390-420, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-T; (xxx=330-350, in steps of 5, 120 cells)  
 JKSM3-DFCA-xxx; (xxx=400-440, in steps of 5, 156 cells)  
 JKSM3-CFCA-xxx; (xxx=335-370, in steps of 5, 132 cells)  
 JKSM3-DHCA-xxx; (xxx=400-450, in steps of 5, 156 cells)  
 JKSM3-CHCA-xxx; (xxx=340-380, in steps of 5, 132 cells)  
 JKSN3-DHCA-xxx; (xxx=410-440, in steps of 5, 156 cells)  
 JKSN3-CHCA-xxx; (xxx=345-370, in steps of 5, 132 cells)  
 JKMxxxM-78H (xxx=405-445, in steps of 5, 156 cells)  
 JKMxxxM-66H (xxx=340-375, in steps of 5, 132 cells)  
 JKMxxxM-78HB (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-T (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-T (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-T (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-T (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3; JKMxxxM-7RL3-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3; JKMxxxM-6RL3-J (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxN-7RL3; JKMxxxN-7RL3-J (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3; JKMxxxN-6RL3-J (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-T; JKMxxxM-7RL3-T-J (xxx=420-475, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-T; JKMxxxM-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-T; JKMxxxN-7RL3-T-J (xxx=425-475, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-T; JKMxxxN-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxN-72H-MBB (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB (xxx=320-350, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-B (xxx=425-450, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-B (xxx=360-380, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B (xxx=425-450, in steps of 5, 156 cells)  
 JKMxxxM-72HL-T-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-T-Q (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-72HL-Q; JKMxxxM-72HBL-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-Q; JKMxxxM-60HBL-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-MX3-Q; JKMSxxxM-72HBL-MX3-Q (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-MX3-Q; JKMSxxxM-60HBL-MX3-Q (xxx=270-340, in steps of 5, 120 cells)  
 JKMSxxxM-72H-TI; JKMSxxxM-72HL-TI; JKMSxxxM-72HB-TI; JKMSxxxM-72HBL-TI (xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-TI; JKMSxxxM-60HL-TI; JKMSxxxM-60HB-TI; JKMSxxxM-60HBL-TI (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-TI-Q; JKMSxxxM-72HBL-TI-Q (xxx=335-425, in steps of 5, 144 cells) JKMSxxxM-60HL-TI-Q; JKMSxxxM-60HBL-TI-Q  
 (xxx=270-350, in steps of 5, 120 cells) JKMSxxxM-72H-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-78H-TI (xxx=405-445, in steps of 5, 156 cells)

JKMSxxxM-66H-TI (xxx=340-375, in steps of 5, 132 cells)  
 JKMSxxxM-78HB-TI (xxx=405-435, in steps of 5, 156 cells)  
 JKMSxxxM-66HB-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMSxxxM-7RL3-TI (xxx=430-495, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-TI (xxx=360-415, in steps of 5, 132 cells)  
 JKMSxxxM-6TL3-TI (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxN-7RL3-TI (xxx=430-500, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-TI (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-TI (xxx=335-390, in steps of 5, 120 cells)  
 JKMSxxxN-72H-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
 JKMSxxxM-7RL3-B-TI (xxx=425-450, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-B-TI (xxx=360-380, in steps of 5, 132 cells)  
 JKMSxxxN-7RL3-B-TI (xxx=425-450, in steps of 5, 156 cells)  
 JKMSxxxN-72H-MBB-B-TI (xxx=380-400, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-B-TI (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-6TL3 (xxx=335-380, in steps of 5, 120 cells)  
 JKMxxxN-6TL3 (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-B (xxx=380-400, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-B (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72HL-T-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-T-Q (xxx=315-355, in steps of 5, 120 cells)

**With ½ cut of 6" poly c-Si cells:**

JKMxxxPP-72HB (xxx=330-380, in steps of 5, 144 cells)  
 JKMxxxPP-60HB (xxx=260-315, in steps of 5, 120 cells)  
 JKMSxxxPP-72H-MX3; JKMSxxxPP-72HB-MX3; JKMSxxxPP-72HL-MX3; JKMSxxxPP-72HBL-MX3 (xxx=330-380, in steps of 5, 144 cells)  
 JKMSxxxPP-60H-MX3; JKMSxxxPP-60HB-MX3; JKMSxxxPP-60HL-MX3; JKMSxxxPP-60HBL-MX3 (xxx=260-315, in steps of 5, 120 cells)  
 JKMxxxPP-72H; (xxx=330-380, in steps of 5, 144 cells)  
 JKMxxxPP-60H; (xxx=260-315, in steps of 5, 120 cells)

**With 6" mono c-Si cells:**

JKMxxxM-72; JKMxxxM-72(Plus); JKMxxxM-72L; JKMSxxxM-72; JKMSxxxM-72-J  
 (xxx=335-410, in steps of 5, 72 cells)  
 JKMxxxM-60; JKMxxxM-60(Plus); JKMxxxM-60L; JKMSxxxM-60; JKMSxxxM-60-J  
 (xxx=270-340, in steps of 5, 60 cells)  
 JKMxxxM-72B; JKMxxxM-72BL (xxx=335-410, in steps of 5, 72 cells)  
 JKMxxxM-60B; JKMxxxM-60BL (xxx=270-340, in steps of 5, 60 cells)  
 JKMSxxxM-72-MX3; JKMSxxxM-72B-MX3; JKMSxxxM-72L-MX3; JKMSxxxM-72BL-MX3  
 (xxx=335-395, in steps of 5, 72 cells)  
 JKMSxxxM-60-MX3; JKMSxxxM-60B-MX3; JKMSxxxM-60L-MX3; JKMSxxxM-60BL-MX3  
 (xxx=270-340, in steps of 5, 60 cells)  
 JKMSxxxM-72-TI; JKMSxxxM-72L-TI; JKMSxxxM-72B-TI; JKMSxxxM-72BL-TI (xxx=335-410, in steps of 5, 72 cells)  
 JKMSxxxM-60-TI; JKMSxxxM-60L-TI; JKMSxxxM-60B-TI; JKMSxxxM-60BL-TI (xxx=270-340, in steps of 5, 60 cells)  
 MMxxx-72LA-MB; MMxxx-72LA-AB; SMMxxx-72LA-MB; SMMxxx-72LA-MB-TI; SMMxxx-72LA-AB-TI (xxx=335-410, in steps of 5, 72 cells)  
 MMxxx-60LA-MB; MMxxx-60LA-AB; SMMxxx-60LA-MB-TI; SMMxxx-60LA-AB-TI (xxx=270-340, in steps of 5, 60 cells)  
 SMMxxx-72LA-MB-MX3; SMMxxx-72LA-AB-MX3 (xxx=335-395, in steps of 5, 72 cells) SMMxxx-60LA-MB-MX3; SMMxxx-60LA-AB-MX3  
 (xxx=270-340, in steps of 5, 60 cells)



**With 6" poly c-Si cells:**

JKMxxxPP-72; JKMxxxPP-72(Plus); JKMSxxxPP-72; JKMSxxxPP-72-J;(xxx=320-355, in steps of 5, 72 cells)  
 JKMxxxPP-60; JKMxxxPP-60(Plus); JKMSxxxPP-60; JKMSxxxPP-60-J;(xxx=260-290, in steps of 5, 60 cells)  
 JKMxxxPP-72B (xxx=320-355, in steps of 5, 72 cells)  
 JKMxxxPP-60B (xxx=260-290, in steps of 5, 60 cells)  
 JKMSxxxPP-72-MX3; JKMSxxxPP-72B-MX3; JKMSxxxPP-72L-MX3; JKMSxxxPP-72BL-MX3 (xxx=320-355, in steps of 5, 72 cells)  
 JKMSxxxPP-60-MX3; JKMSxxxPP-60B-MX3; JKMSxxxPP-60L-MX3; JKMSxxxPP-60BL-MX3 (xxx=260-290, in steps of 5, 60 cells)

● **Max. system voltage (Up to 1500VDC)**

**With ½ cut of mono c-Si cells:**

JKMxxxN-54HL4R-V (xxx=365-455, in steps of 5, 108 cells)  
 JKxxxN-66H5-BTV (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J, JKMxxxM-72HL4-S-V, JKMxxxM-72HL4-S-V-J  
 (xxx=560-570, in steps of 5, 144 cells)  
 JKMxxxM-60HL4-V, JKMxxxM-60HL4-S-V (xxx=465-470, in steps of 5, 120 cells)  
 JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J, JKMxxxM-72HL4-S-TV, JKMxxxM-72HL4-S-TV-J (xxx=555-565, in steps of 5, 144 cells)  
 JKMxxxN-78HL4-TV (xxx=570-625, in steps of 5, 156 cells)  
 JKMxxxN-78HL4-V (xxx=570-625, in steps of 5, 156 cells)  
 JKMxxxN-7RL3-S-TV, JKMxxxN-7RL3-S-TV-J (xxx=425-500, in steps of 5, 156 cells) JKMxxxN-6RL3-S-TV, JKMxxxN-6RL3-S-TV-J (xxx=355-420, in steps of 5, 132 cells) JKMxxxN-6TL3-S-TV (xxx=325-380, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-S-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-S-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-S-B-V (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-S-V, JKMxxxM-7RL3-S-V-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-S-V, JKMxxxM-6RL3-S-V-J, JKMSxxxM-6RL3-V-MX3 (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-S-V, JKMSxxxM-6TL3-V-MX3 (xxx=335-380, in steps of 5, 120 cells) JKMxxxM-7RL3-S-TV, JKMxxxM-7RL3-S-TV-J (xxx=420-475, in steps of 5, 156 cells) JKMxxxM-6RL3-S-TV, JKMxxxM-6RL3-S-TV-J (xxx=355-400, in steps of 5, 132 cells) JKMxxxM-6TL3-S-TV (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-S-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-S-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-S-B-V (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-78HL4-S-V (xxx=565-605, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-S-V, JKMxxxM-72HL4-S-V-J (xxx=475-555, in steps of 5, 144 cells) JKMxxxM-66HL4-S-V (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-V (xxx=400-460, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-V (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-78HL4-S-TV (xxx=555-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-S-TV, JKMxxxM-72HL4-S-TV-J (xxx=475-550, in steps of 5, 144 cells) JKMxxxM-66HL4-S-TV (xxx=440-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-TV (xxx=400-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-TV (xxx=360-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-S-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-S-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMSxxxN-6RL3-V-MX3 (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-V-MX3 (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-78HL4-V (xxx=565-605, in steps of 5, 156 cells)  
 MMxxx-78HLD-MBV (xxx=565-605, in steps of 5, 156 cells)  
 JKMxxxM-78HL4-TV (xxx=555-595, in steps of 5, 156 cells)

JKxxxM-66R5-MWV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66R5-BTV (xxx=630-660, in steps of 5, 132 cells)  
 JKxxxM-66H5-MWV (xxx=635-670, in steps of 5, 132 cells)  
 JKxxxM-66H5-BTV (xxx=630-665, in steps of 5, 132 cells)  
 MNxxx-72HLD-MBV (xxx=485-555, in steps of 5, 144 cells)  
 MNxxx-66HLD-MBV (xxx=445-505, in steps of 5, 132 cells)  
 MNxxx-60HLD-MBV (xxx=405-460, in steps of 5, 120 cells)  
 MNxxx-54HLD-MBV (xxx=365-415, in steps of 5, 108 cells)  
 MNxxx-72HLD-BBV (xxx=480-545, in steps of 5, 144 cells)  
 MNxxx-66HLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
 MNxxx-60HLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
 MNxxx-54HLD-BBV (xxx=360-405, in steps of 5, 108 cells)  
 MNxxx-7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)  
 MNxxx-7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)  
 MNxxx-7RLD-BBV (xxx=520-585, in steps of 5, 156 cells)  
 MNxxx-7TLD-BBV (xxx=480-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-BBV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HLM-TV (xxx=425-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-TV (xxx=355-380, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MBB-V-MX3 (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-V-MX3 (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-72HLM-V-MX3 (xxx=420-465, in steps of 5, 144 cells)  
 JKMSxxxM-60HLM-V-MX3 (xxx=350-385, in steps of 5, 120 cells)  
 JKMSxxxM-78H-MBB-V-MX3 (xxx=440-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-MBB-V-MX3 (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-B-V, JKMSxxxM-72HLM-B-V-MX3 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B-V, JKMSxxxM-60HLM-B-V-MX3 (xxx=350-370, in steps of 5, 120 cells)  
 MMxxx-72HLD-MBV (xxx=475-570, in steps of 5, 144 cells)  
 MMxxx-66HLD-MBV (xxx=440-505, in steps of 5, 132 cells)  
 MMxxx-60HLD-MBV (xxx=400-470, in steps of 5, 120 cells)  
 MMxxx-54HLD-MBV (xxx=360-420, in steps of 5, 108 cells)  
 MMxxx-7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)  
 MMxxx-7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)  
 MMxxx-6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)  
 MMxxx-6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)  
 MMxxx-5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)  
 MMxxx-72HLA-BBV-MBB (xxx=385-405, in steps of 5, 144 cells)  
 MMxxx-60HLA-BBV-MBB (xxx=320-335, in steps of 5, 120 cells)  
 MMxxx-72HLA-MBV-MBB, SMMxxx-72HLA-MBV-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MBV-MBB, SMMxxx-60HLA-MBV-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 MMxxx-72HLM-MBV (xxx=420-465, in steps of 5, 144 cells)  
 MMxxx-60HLM-MBV (xxx=350-385, in steps of 5, 120 cells)  
 MM-72HLA-BBV-MBB (xxx=385-405, in steps of 5, 144 cells)  
 MM-60HLA-BBV-MBB (xxx=320-335, in steps of 5, 120 cells)

MMxxx-7RLC-BBV (xxx=420-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
 MMxxx-7RLC-MBV, SMMxxx-7RLC-MBV-TI (xxx=430-475, in steps of 5, 156 cells) MMxxx-6RLC-MBV, SMMxxx-6RLC-MBV-TI (xxx=360-400, in steps of 5, 132 cells) MMxxx-6TLC-MBV, SMMxxx-6TLC-MBV-TI (xxx=335-365, in steps of 5, 120 cells) MMxxx-7RLC-ABV, SMMxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
 MMxxx-6RLC-ABV, SMMxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
 MMxxx-6TLC-ABV, SMMxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
 MMxxx-78HLA-MBV-MBB (xxx=440-465, in steps of 5, 156 cells)  
 MMxxx-66HLA-MBV-MBB (xxx=370-390, in steps of 5, 132 cells)  
 MMxxx-78HLA-MBV, SMMxxx-78HLA-MBV-TI (xxx=405-465, in steps of 5, 156 cells) MMxxx-66HLA-MBV, SMMxxx-66HLA-MBV-TI (xxx=340-390, in steps of 5, 132 cells) MMxxx-78HLA-ABV, SMMxxx-78HLA-ABV-TI (xxx=405-435, in steps of 5, 156 cells) MMxxx-66HLA-ABV, SMMxxx-66HLA-ABV-TI (xxx=340-365, in steps of 5, 132 cells)  
 SMMxxx-72HLA-MBV-MX3, SMMxxx-72HLA-ABV-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 SMMxxx-60HLA-MBV-MX3, SMMxxx-60HLA-ABV-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 MMxxx-72HLA-BBV (xxx=375-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-BBV (xxx=315-355, in steps of 5, 120 cells)  
 MMxxx-60HLA-MBV, MMxxx-60HLA-ABV, SMMxxx-60HLA-MBV-TI, SMMxxx-60HLA-ABV-TI (xxx=270-350, in steps of 5, 120 cells)  
 MMxxx-72HLA-MBV, MMxxx-72HLA-ABV, SMMxxx-72HLA-MBV-TI, SMMxxx-72HLA-ABV-TI (xxx=335-425, in steps of 5, 144 cells)  
 MMxxx-78HLA-BBV (xxx=405-455, in steps of 5, 156 cells)  
 MNxxx-72HLA-BBV-MBB (xxx=390-420, in steps of 5, 144 cells)  
 MNxxx-60HLA-BBV-MBB (xxx=330-350, in steps of 5, 120 cells)  
 MNxxx-7RLC-MBV, SMNxxx-7RLC-MBV-TI (xxx=430-475, in steps of 5, 156 cells)  
 MNxxx-6RLC-MBV, SMNxxx-6RLC-MBV-TI (xxx=360-400, in steps of 5, 132 cells)  
 MNxxx-6TLC-MBV, SMNxxx-6TLC-MBV-TI (xxx=335-365, in steps of 5, 120 cells)  
 MNxxx-7RLC-BBV (xxx=425-475, in steps of 5, 156 cells)  
 MNxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
 MNxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
 MNxxx-72HLA-MBV-MBB, SMNxxx-72HLA-MBV-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MNxxx-60HLA-MBV-MBB, SMNxxx-60HLA-MBV-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
 MNxxx-7RLC-ABV, SMNxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
 MNxxx-6RLC-ABV, SMNxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
 MNxxx-6TLC-ABV, SMNxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
 MNxxx-72HLA-ABV-MBB, SMNxxx-72HLA-ABV-MBB-TI (xxx=380-400, in steps of 5, 144 cells)  
 MNxxx-60HLA-ABV-MBB, SMNxxx-60HLA-ABV-MBB-TI (xxx=315-330, in steps of 5, 120 cells)  
 MMxxx-66HLA-BBV (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-72HL4-V (xxx=485-575, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-V (xxx=445-525, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-V (xxx=405-480, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-V (xxx=365-455, in steps of 5, 108 cells)  
 JKMxxxN-72HL4-TV (xxx=480-575, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-TV (xxx=440-525, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-TV (xxx=400-480, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-TV (xxx=360-430, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-V (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-V (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-V (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-V (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-V (xxx=375-460, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-TV (xxx=520-585, in steps of 5, 156 cells)



JKMxxxN-7TL4-TV (xxx=480-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-TV (xxx=440-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-TV (xxx=400-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-TV (xxx=520-585, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-TV (xxx=480-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-TV (xxx=440-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-TV (xxx=400-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-TV, JKMxxxM-7RL4-TV-J (xxx=525-590, in steps of 5, 156 cells) JKMxxxM-7TL4-TV, JKMxxxM-7TL4-TV-J (xxx=485-570, in steps of 5, 144 cells) JKMxxxM-6RL4-TV (xxx=445-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-TV (xxx=405-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-V, JKMxxxM-7RL4-V-J (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-V, JKMxxxM-7TL4-V-J (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-V (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-V (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-V (xxx=375-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J (xxx=475-555, in steps of 5, 144 cells) JKMxxxM-66HL4-V (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-V (xxx=400-460, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-V (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J (xxx=475-550, in steps of 5, 144 cells) JKMxxxM-66HL4-TV (xxx=440-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-TV (xxx=400-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-TV (xxx=360-410, in steps of 5, 108 cells)  
 JKMxxxM-6TL3-B-V, JKMSxxxM-6TL3-B-V-TI (xxx=320-365, in steps of 5, 120 cells) JKMxxxN-6TL3-B-V, JKMSxxxN-6TL3-B-V-TI (xxx=320-365, in steps of 5, 120 cells) JKMxxxM-78H-MBB-V (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-MBB-V (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-V (xxx=420-465, in steps of 5, 144 cells)

JKMxxxM-60HLM-V (xxx=350-385, in steps of 5, 120 cells)  
 JKMSxxxM-72H-V-TI; JKMSxxxM-72HL-V-TI; JKMSxxxM-72HB-V-TI; JKMSxxxM-72HBL-V-TI (xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-V-TI; JKMSxxxM-60HL-V-TI; JKMSxxxM-60HB-V-TI; JKMSxxxM-60HBL-V-TI (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-V-TI-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-V-TI-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MBB-V-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-V-TI (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-78H-V-TI (xxx=405-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-V-TI (xxx=340-390, in steps of 5, 132 cells)  
 JKMSxxxM-78H-V-TI-Q (xxx=405-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-V-TI-Q (xxx=340-390, in steps of 5, 132 cells)  
 JKMSxxxM-78HB-V-TI (xxx=405-435, in steps of 5, 156 cells)  
 JKMSxxxM-66HB-V-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMSxxxM-7RL3-V-TI (xxx=430-495, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-V-TI (xxx=360-415, in steps of 5, 132 cells)  
 JKMSxxxM-6TL3-V-TI (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxN-72H-MBB-V-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-V-TI (xxx=320-350, in steps of 5, 120 cells)  
 JKMSxxxM-7RL3-B-V-TI (xxx=425-480, in steps of 5, 156 cells)  
 JKMSxxxN-7RL3-V-TI (xxx=430-500, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-V-TI (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-V-TI (xxx=335-390, in steps of 5, 120 cells)  
 JKMSxxxM-6RL3-B-V-TI (xxx=360-405, in steps of 5, 132 cells)  
 JKMSxxxN-7RL3-B-V-TI (xxx=425-480, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-B-V-TI (xxx=360-405, in steps of 5, 132 cells)  
 JKMSxxxN-72H-MBB-B-V-TI (xxx=380-400, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-B-V-TI (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72H-V; JKMxxxM-72HL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-V; JKMxxxM-60HL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72H-V-MX3; JKMSxxxM-72HB-V-MX3; JKMSxxxM-72HL-V-MX3; JKMSxxxM-72HBL-V-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60H-V-MX3; JKMSxxxM-60HB-V-MX3; JKMSxxxM-60HL-V-MX3; JKMSxxxM-60HBL-V-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-TV; JKMxxxN-72HL-TV (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-TV; JKMxxxN-60HL-TV (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-TV (xxx=390-420, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-TV (xxx=330-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-TV; JKMxxxM-72HL-TV (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-TV; JKMxxxM-60HL-TV (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-TV (xxx=385-405, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-TV (xxx=320-335, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-V (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-V (xxx=320-355, in steps of 5, 120 cells)  
 JKSN3-DCCA-xxx (xxx=410-440, in steps of 5, 156 cells)  
 JKSN3-CCCA-xxx (xxx=345-370, in steps of 5, 132 cells)  
 JKSM3-DCCA-xxx (xxx=400-425, in steps of 5, 156 cells)  
 JKSM3-CCCA-xxx (xxx=340-355, in steps of 5, 132 cells)  
 JKSM3-DACA-xxx (xxx=400-440, in steps of 5, 156 cells)  
 JKSM3-CACA-xxx (xxx=335-370, in steps of 5, 132 cells)  
 JKSM3-DCCA-xxx (xxx=430-450, in steps of 5, 156 cells)  
 JKSM3-CCCA-xxx (xxx=360-380, in steps of 5, 132 cells)



JKMxxxM-78H-V (xxx=405-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-V (xxx=340-390, in steps of 5, 132 cells)  
 JKMxxxM-78HB-V (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB-V (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxN-78H-TV (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-TV (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-72HB-V; JKMxxxM-72HBL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HB-V; JKMxxxM-60HBL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-78HB-V (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB-V (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-TV (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-TV (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-72HB-V; JKMxxxM-72HBL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HB-V; JKMxxxM-60HBL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-V; JKMxxxM-7RL3-V-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-V; JKMxxxM-6RL3-V-J (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-V; JKMxxxN-7RL3-V-J (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-V; JKMxxxN-6RL3-V-J (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-TV; JKMxxxM-7RL3-TV-J (xxx=420-475, in steps of 5, 156 cells) JKMxxxM-6RL3-TV; JKMxxxM-6RL3-TV-J (xxx=355-400, in steps of 5, 132 cells) JKMxxxN-7RL3-TV; JKMxxxN-7RL3-TV-J (xxx=425-500, in steps of 5, 156 cells) JKMxxxN-6RL3-TV; JKMxxxN-6RL3-TV-J (xxx=355-420, in steps of 5, 132 cells) JKMxxxN-72H-MBB-V (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-V (xxx=320-350, in steps of 5, 120 cells)  
 JKMxxxM-72HL-TV-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-TV-Q (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-72H-MBB-B-V (xxx=380-400, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-B-V (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72HL-V-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-V-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-V-MX3-Q (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-V-MX3-Q (xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxM-78H-V-Q (xxx=405-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-V-Q (xxx=340-390, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV-Q (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV-Q (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-V (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-V (xxx=335-380, in steps of 5, 120 cells)  
 JKMxxxN-6TL3-TV (xxx=325-380, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-TV (xxx=325-365, in steps of 5, 120 cells)

**With 6" mono c-Si cells:**

MMxxx-72LA-MBV, MMxxx-72LA-ABV, SMMxxx-72LA-MBV, SMMxxx-72LA-MBV-TI, SMMxxx-72LA-ABV-TI (xxx=335-410, in steps of 5, 72 cells)  
 MMxxx-60LA-MBV, MMxxx-60LA-ABV, SMMxxx-60LA-MBV-TI, SMMxxx-60LA-ABV-TI

(xxx=270-340, in steps of 5, 60 cells)

SMMxxx-72LA-MBV-MX3, SMMxxx-72LA-ABV-MX3 (xxx=335-395, in steps of 5, 72 cells) SMMxxx-60LA-MBV-MX3, SMMxxx-60LA-ABV-MX3  
(xxx=270-340, in steps of 5, 60 cells) JKMSxxxM-72-V-TI; JKMSxxxM-72L-V-TI; JKMSxxxM-72B-V-TI; JKMSxxxM-72BL-V-TI

(xxx=335-410, in steps of 5, 72 cells)

JKMSxxxM-60-V-TI; JKMSxxxM-60L-V-TI; JKMSxxxM-60B-V-TI; JKMSxxxM-60BL-V-TI

(xxx=270-340, in steps of 5, 60 cells)

JKMxxxM-72-V; JKMxxxM-72(Plus)-V; JKMxxxM-72L-V; JKMSxxxM-72-V; JKMSxxxM-72-V-J(xxx=335-410, in steps of 5, 72 cells)

JKMxxxM-60-V; JKMxxxM-60(Plus)-V; JKMxxxM-60L-V; JKMSxxxM-60-V; JKMSxxxM-60-V-J(xxx=270-340, in steps of 5, 60 cells)

JKMSxxxM-72-V-MX3; JKMSxxxM-72B-V-MX3; JKMSxxxM-72L-V-MX3; JKMSxxxM-72BL-V-MX3(xxx=335-395, in steps of 5, 72 cells)

JKMSxxxM-60-V-MX3; JKMSxxxM-60B-V-MX3; JKMSxxxM-60L-V-MX3; JKMSxxxM-60BL-V-MX3(xxx=270-340, in steps of 5, 60 cells)

JKMxxxM-72B-V; JKMxxxM-72BL-V (xxx=335-410, in steps of 5, 72 cells)

JKMxxxM-60B-V; JKMxxxM-60BL-V (xxx=270-340, in steps of 5, 60 cells)

#### With 6" poly c-Si cells:

JKMxxxPP-72-V; JKMxxxPP-72(Plus)-V; JKMSxxxPP-72-V; JKMSxxxPP-72-V-J(xxx=320-355, in steps of 5, 72 cells)

JKMxxxPP-60-V; JKMxxxPP-60(Plus)-V; JKMSxxxPP-60-V; JKMSxxxPP-60-V-J(xxx=260-290, in steps of 5, 60 cells)

JKMSxxxPP-72-V-MX3; JKMSxxxPP-72B-V-MX3; JKMSxxxPP-72L-V-MX3; JKMSxxxPP-72BL-V-MX3(xxx=320-355, in steps of 5, 72 cells)

JKMSxxxPP-60-V-MX3; JKMSxxxPP-60B-V-MX3; JKMSxxxPP-60L-V-MX3; JKMSxxxPP-60BL-V-MX3(xxx=260-290, in steps of 5, 60 cells)

JKMxxxPP-72B-V (xxx=320-355, in steps of 5, 72 cells)

JKMxxxPP-60B-V (xxx=260-290, in steps of 5, 60 cells)

#### With ½ cut of 6" poly c-Si cells:

JKMxxxPP-72H-V (xxx=330-380, in steps of 5, 144 cells)

JKMxxxPP-60H-V (xxx=260-315, in steps of 5, 120 cells)

JKMSxxxPP-72H-V-MX3; JKMSxxxPP-72HB-V-MX3; JKMSxxxPP-72HL-V-MX3; JKMSxxxPP-72HBL-V-MX3(xxx=330-380, in steps of 5, 144 cells)

JKMSxxxPP-60H-V-MX3; JKMSxxxPP-60HB-V-MX3; JKMSxxxPP-60HL-V-MX3; JKMSxxxPP-60HBL-V-MX3(xxx=260-315, in steps of 5, 120 cells)

JKMxxxPP-72HB-V (xxx=330-380, in steps of 5, 144 cells)

JKMxxxPP-60HB-V (xxx=260-315, in steps of 5, 120 cells)

#### With ½ cut of mono c-Si cells:

JKMxxxN-72HL4R-V (xxx=485-575, in steps of 5, 144 cells)

JKMxxxN-60HL4R-V (xxx=405-480, in steps of 5, 120 cells)

JKMxxxN-72HL4R-TV (xxx=480-575, in steps of 5, 144 cells)

#### With ½ cut of mono c-Si cells:

JKMxxxN-72HL4-V, JKMxxxN-72HL4R-V (xxx=580-600, in steps of 5, 144 cells)

JKMxxxN-60HL4-V, JKMxxxN-60HL4R-V (xxx=485-500, in steps of 5, 120 cells) JKMxxxN-72HL4-TV, JKMxxxN-72HL4R-TV (xxx=580-605, in steps of 5, 144 cells)

#### ● Max. system voltage (Up to 1500VDC)

##### With 1/2 cut of mono c-Si cells:

JKBSxxxM-48HL4-BDVP (xxx=335-375, in steps of 5, 96 cells)

JKBSxxxM-22.5HL4-BDVP (xxx=160-175, in steps of 5, 45 cells)

JKxxxM-66R5-BGV (xxx=630-665, in steps of 5, 132 cells)

JKxxxM-66H5-BGV (xxx=635-670, in steps of 5, 132 cells)

JKMxxxN-78HL4-BDV (xxx=570-625, in steps of 5, 156 cells)

JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J (xxx=480-575, in steps of 5, 144 cells) JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)

JKMxxxN-60HL4-BDV (xxx=400-470, in steps of 5, 120 cells)

JKMxxxN-54HL4-BDV (xxx=360-425, in steps of 5, 108 cells)

JKMxxxN-7RL4-BDV, JKMxxxN-7RL4-BDV-J (xxx=535-595, in steps of 5, 156 cells) JKMxxxN-7TL4-BDV, JKMxxxN-7TL4-BDV-J (xxx=495-545, in steps of 5, 144 cells) JKMxxxN-6RL4-BDV (xxx=455-500, in steps of 5, 132 cells)

JKMxxxN-6TL4-BDV (xxx=415-455, in steps of 5, 120 cells)

JKMxxxN-5RL4-BDV (xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-72H-DV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-DV (xxx=325-345, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-BDVP, JKMxxxM-7RL4-BDVP-J (xxx=535-595, in steps of 5, 156 cells) JKMxxxM-78HL4-BDVP (xxx=570-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-BDVP, JKMxxxM-72HL4-BDVP-J (xxx=500-565, in steps of 5, 144 cells) JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-7TL4-BDVP, JKMxxxM-7TL4-BDVP-J (xxx=500-545, in steps of 5, 144 cells) JKMxxxM-6RL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-BDV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-BDV (xxx=330-345, in steps of 5, 120 cells)  
 JKMxxxM-72HL-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-BDVP (xxx=380-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-BDVP (xxx=315-345, in steps of 5, 120 cells)  
 JKSN3-DDCA-xxx (xxx=405-435, in steps of 5, 156 cells)  
 JKSN3-CDCA-xxx (xxx=345-365, in steps of 5, 132 cells)  
 JKSM3-DDCA-xxx (xxx=405-430, in steps of 5, 156 cells)  
 JKSM3-CDCA-xxx (xxx=345-360, in steps of 5, 132 cells)  
 JKMxxxN-78H-BDV (xxx=415-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-BDV (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-BDV (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-BDV (xxx=375-410, in steps of 5, 132 cells)  
 JKMxxxM-78H-BDVP (xxx=415-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-BDVP (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-BDVP; JKMxxxM-7RL3- BDVP-J (xxx=440-465, in steps of 5, 156 cells) JKMxxxM-6RL3- BDVP; JKMxxxM-6RL3- BDVP-J (xxx=375-390, in steps of 5, 132 cells) JKMxxxM-78HL3-BDVP, JKMxxxM-78HL3-MBB-BDVP (xxx=450-480, in steps of 5, 156 cells)  
 JKMxxxM-66HL3-BDVP, JKMxxxM-66HL3-MBB-BDVP (xxx=380-405, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-BDVP (xxx=415-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-BDVP (xxx=345-380, in steps of 5, 120 cells)  
 JKBSxxxN-48HL4-BDV (xxx=355-380, in steps of 5, 96 cells)  
 JKBSxxxN-22.5HL4-BDV (xxx=165-180, in steps of 5, 45 cells)

**With 6" mono c-Si cells:**

JKMxxxM-72L-BDV (xxx=375-405, in steps of 5, 72 cells)  
 JKMxxxM-72-BDV (xxx=375-405, in steps of 5, 72 cells)  
 JKMxxxM-60L-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-60-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-72L-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-72-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-60L-BDVP (xxx=305-340, in steps of 5, 60 cells)  
 JKMxxxM-60-BDVP (xxx=305-340, in steps of 5, 60 cells)

JKMxxxM-72-DV (xxx=385-405, in steps of 5, 72 cells)

**With 1/2 cut of mono c-Si cells:**

JKMxxxN-72HL4R-BDV (xxx=480-575, in steps of 5, 144 cells)

JKMxxxN-60HL4R-BDV (xxx=400-470, in steps of 5, 120 cells)

JKMxxxN-54HL4R-BDV (xxx=360-425, in steps of 5, 108 cells)

**With 1/2 cut of mono c-Si cells:**

JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J, JKMxxxN-72HL4R-BDV (xxx=580-610, in steps of 5, 144 cells)

JKMxxxN-60HL4-BDV, JKMxxxN-60HL4R-BDV (xxx=475-505, in steps of 5, 120 cells) JKMxxxN-54HL4-BDV, JKMxxxN-54HL4R-BDV (xxx=430-455, in steps of 5, 108 cells)

列表完



之认证机构  
杭州汉德质量认证服务有限公司

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打印于:  
杭州汉德质量认证服务有限公司上海分公司  
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# ANNEX 2

## Appendix to Certificate Registration No. CN-44 101 1688 0002-001

### IEC 62941: 2019 (Edition 1.0 2019-12)

List of photovoltaic (PV) modules certified to: IEC / EN 61215:2016;

- **Max. system voltage (Up to 1000VDC)**

**With ½ cut of mono c-Si cells:**

JKMxxxN-72HL4R (xxx=485-600, in steps of 5, 144 cells)  
 JKMxxxN-60HL4R (xxx=405-500, in steps of 5, 120 cells)  
 JKMxxxN-54HL4R (xxx=365-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-B (xxx=380-450, in steps of 5, 108 cells)  
 JKMxxxN-78HL4 (xxx=570-625, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-MX3 (xxx=360-415, in steps of 5, 132 cells)  
 JKMSxxxN-6RL3-MX3 (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-MX3 (xxx=335-390, in steps of 5, 120 cells)  
 JKMSxxxM-6RL3-B-MX3 (xxx=360-405, in steps of 5, 132 cells)  
 JKMSxxxN-6RL3-B-MX3 (xxx=360-425, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-B-MX3 (xxx=320-385, in steps of 5, 120 cells)  
 JKxxxM-66R5-MW (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66H5-MW (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxM-36H (xxx=195-205, in steps of 5, 72 cells)  
 MMxxx-72HLD-MB (xxx=475-570, in steps of 5, 144 cells)  
 MMxxx-66HLD-MB (xxx=440-505, in steps of 5, 132 cells)  
 MMxxx-60HLD-MB (xxx=400-470, in steps of 5, 120 cells)  
 MMxxx-54HLD-MB (xxx=360-420, in steps of 5, 108 cells)  
 MMxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
 MMxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
 MMxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
 MMxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
 MMxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
 JKMxxxN-48H-MBB-B (xxx=255-265, in steps of 5, 96 cells)  
 JKMxxxN-32H-MBB-B (xxx=170-175, in steps of 5, 64 cells)  
 JKMxxxN-72HL3-MBB-B (xxx=400-445, in steps of 5, 144 cells)  
 JKMxxxN-60HL3-MBB-B (xxx=330-370, in steps of 5, 120 cells)  
 JKMxxxN-48HL3-MBB-B (xxx=270-295, in steps of 5, 96 cells)  
 JKMxxxN-32HL3-MBB-B (xxx=180-195, in steps of 5, 64 cells)  
 MNxxx-72HLD-MB (xxx=485-555, in steps of 5, 144 cells)  
 MNxxx-66HLD-MB (xxx=445-505, in steps of 5, 132 cells)  
 MNxxx-60HLD-MB (xxx=405-460, in steps of 5, 120 cells)



MNxxx-54HLD-MB (xxx=365-415, in steps of 5, 108 cells)  
 MNxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
 MNxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
 JKMSxxxM-78H-MBB-MX3 (xxx=440-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-MBB-MX3 (xxx=370-390, in steps of 5, 132 cells)  
 JKMSxxxM-72H-MBB-MX3 (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-MX3 (xxx=320-355, in steps of 5, 120 cells)  
 JKMxxxM-72HLM-B, JKMSxxxM-72HLM-B-MX3 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B, JKMSxxxM-60HLM-B-MX3 (xxx=350-370, in steps of 5, 120 cells)  
 JKMSxxxM-6TL3-MX3 (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxM-6TL3-B-MX3 (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B (xxx=380-405, in steps of 5, 108 cells)  
 JKMxxxN-72HL4 (xxx=485-600, in steps of 5, 144 cells)  
 JKMxxxN-66HL4 (xxx=445-525, in steps of 5, 132 cells)  
 JKMxxxN-60HL4 (xxx=405-500, in steps of 5, 120 cells)  
 JKMxxxN-54HL4 (xxx=365-455, in steps of 5, 108 cells)  
 JKMxxxN-7RL4 (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxN-7TL4 (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4 (xxx=375-460, in steps of 5, 108 cells)  
 JKMxxxN-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-B (xxx=425-470, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-B (xxx=380-450, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B (xxx=375-455, in steps of 5, 108 cells)  
 MMxxx-7RLC-MB, SMMxxx-7RLC-MB-TI (xxx=430-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-MB, SMMxxx-6RLC-MB-TI (xxx=360-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-MB, SMMxxx-6TLC-MB-TI (xxx=335-365, in steps of 5, 120 cells)  
 MMxxx-72HLA-MB-MBB, SMMxxx-72HLA-MB-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MB-MBB, SMMxxx-60HLA-MB-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 MMxxx-7RLC-AB, SMMxxx-7RLC-AB-TI (xxx=425-480, in steps of 5, 156 cells)  
 MMxxx-6RLC-AB, SMMxxx-6RLC-AB-TI (xxx=360-405, in steps of 5, 132 cells)  
 MMxxx-6TLC-AB, SMMxxx-6TLC-AB-TI (xxx=320-365, in steps of 5, 120 cells)

MMxxx-78HLA-MB-MBB (xxx=440-465, in steps of 5, 156 cells)  
 MMxxx-66HLA-MB-MBB (xxx=370-390, in steps of 5, 132 cells)  
 MNxxx-7RLC-MB, SMNxxx-7RLC-MB-TI (xxx=430-490, in steps of 5, 156 cells)  
 MNxxx-6RLC-MB, SMNxxx-6RLC-MB-TI (xxx=360-410, in steps of 5, 132 cells)  
 MNxxx-6TLC-MB, SMNxxx-6TLC-MB-TI (xxx=335-375, in steps of 5, 120 cells)  
 MNxxx-72HLA-MB-MBB, SMNxxx-72HLA-MB-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MNxxx-60HLA-MB-MBB, SMNxxx-60HLA-MB-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
 MNxxx-7RLC-AB, SMNxxx-7RLC-AB-TI (xxx=425-480, in steps of 5, 156 cells)  
 MNxxx-6RLC-AB, SMNxxx-6RLC-AB-TI (xxx=360-405, in steps of 5, 132 cells)  
 MNxxx-6TLC-AB, SMNxxx-6TLC-AB-TI (xxx=320-365, in steps of 5, 120 cells)  
 MNxxx-72HLA-AB-MBB, SMNxxx-72HLA-AB-MBB-TI (xxx=380-400, in steps of 5, 144 cells)  
 MNxxx-60HLA-AB-MBB, SMNxxx-60HLA-AB-MBB-TI (xxx=315-330, in steps of 5, 120 cells)  
 MMxxx-72HLM-MB (xxx=420-465, in steps of 5, 144 cells)  
 MMxxx-60HLM-MB (xxx=350-385, in steps of 5, 120 cells)  
 JKMxxxM-78H-MBB (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-MBB (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HL4, JKMxxxM-72HL4-J (xxx=475-570, in steps of 5, 144 cells)  
 JKMxxxM-66HL4 (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4 (xxx=400-470, in steps of 5, 120 cells)  
 JKMxxxM-54HL4 (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-7RL4, JKMxxxM-7RL4-J (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxM-7TL4, JKMxxxM-7TL4-J (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxM-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4 (xxx=375-405, in steps of 5, 108 cells)  
 MMxxx-72HLA-MB; MMxxx-72HLA-AB; SMMxxx-72HLA-MB-TI; SMMxxx-72HLA-AB-TI  
 (xxx=335-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MB; MMxxx-60HLA-AB; SMMxxx-60HLA-MB-TI; SMMxxx-60HLA-AB-TI  
 (xxx=270-350, in steps of 5, 120 cells)  
 SMMxxx-72HLA-MB-MX3; SMMxxx-72HLA-AB-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 SMMxxx-60HLA-MB-MX3; SMMxxx-60HLA-AB-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 MMxxx-72HLA-BB (xxx=375-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-BB (xxx=315-355, in steps of 5, 120 cells)  
 MMxxx-78HLA-MB; SMMxxx-78HLA-MB-TI (xxx=405-465, in steps of 5, 156 cells)  
 MMxxx-78HLA-AB; SMMxxx-78HLA-AB-TI (xxx=405-435, in steps of 5, 156 cells)  
 MMxxx-66HLA-MB; SMMxxx-66HLA-MB-TI (xxx=340-390, in steps of 5, 132 cells)  
 MMxxx-66HLA-AB; SMMxxx-66HLA-AB-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-B; JKMSxxxN-6TL3-B-TI (xxx=320-385, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-B; JKMSxxxM-6TL3-B-TI (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-78H; JKMSxxxM-78H-TI (xxx=450-465, in steps of 5, 156 cells)  
 JKMxxxM-66H; JKMSxxxM-66H-TI (xxx= 380-390, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B; JKMSxxxN-7RL3-B-TI (xxx=455-480, in steps of 5, 156 cells) JKMxxxN-6RL3-B; JKMSxxxN-6RL3-B-TI (xxx=360-425, in steps of 5, 132 cells) JKMxxxM-7RL3-B; JKMSxxxM-7RL3-B-TI (xxx=455-480, in steps of 5, 156 cells) JKMxxxM-6RL3-B; JKMSxxxM-6RL3-B-TI (xxx=385-405, in steps of 5, 132 cells) JKMxxxM-72HLM; JKMSxxxM-72HLM-MX3 (xxx=420-465, in steps of 5, 144 cells) JKMxxxM-60HLM; JKMSxxxM-60HLM-MX3 (xxx=350-385, in steps of 5, 120 cells) JKMxxxM-72HB; JKMxxxM-72HBL (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HB; JKMxxxM-60HBL (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-T; JKMxxxM-72HL-T (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-T; JKMxxxM-60HL-T (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxN-72H-T; JKMxxxN-72HL-T (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-T; JKMxxxN-60HL-T (xxx=315-355, in steps of 5, 120 cells)

JKMxxxM-72H-MBB (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MX3; JKMSxxxM-72HB-MX3; JKMSxxxM-72HL-MX3; JKMSxxxM-72HBL-MX3 (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MX3; JKMSxxxM-60HB-MX3; JKMSxxxM-60HL-MX3; JKMSxxxM-60HBL-MX3 (xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxM-72H; JKMxxxM-72HL (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60H; JKMxxxM-60HL (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-T; (xxx=385-405, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-T; (xxx=320-335, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-T; (xxx=390-420, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-T; (xxx=330-350, in steps of 5, 120 cells)  
 JKSM3-DFCA-xxx; (xxx=400-440, in steps of 5, 156 cells)  
 JKSM3-CFCA-xxx; (xxx=335-370, in steps of 5, 132 cells)  
 JKSM3-DHCA-xxx; (xxx=400-450, in steps of 5, 156 cells)  
 JKSM3-CHCA-xxx; (xxx=340-380, in steps of 5, 132 cells)  
 JKSN3-DHCA-xxx; (xxx=410-440, in steps of 5, 156 cells)  
 JKSN3-CHCA-xxx; (xxx=345-370, in steps of 5, 132 cells)  
 JKMxxxM-78H (xxx=405-445, in steps of 5, 156 cells)  
 JKMxxxM-66H (xxx=340-375, in steps of 5, 132 cells)  
 JKMxxxM-78HB (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-T (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-T (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-T (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-T (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3; JKMxxxM-7RL3-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3; JKMxxxM-6RL3-J (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxN-7RL3; JKMxxxN-7RL3-J (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3; JKMxxxN-6RL3-J (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-T; JKMxxxM-7RL3-T-J (xxx=420-475, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-T; JKMxxxM-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-T; JKMxxxN-7RL3-T-J (xxx=425-475, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-T; JKMxxxN-6RL3-T-J (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxN-72H-MBB (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB (xxx=320-350, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-B (xxx=425-450, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-B (xxx=360-380, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B (xxx=425-450, in steps of 5, 156 cells)  
 JKMxxxM-72HL-T-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-T-Q (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-72HL-Q; JKMxxxM-72HBL-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-Q; JKMxxxM-60HBL-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-MX3-Q; JKMSxxxM-72HBL-MX3-Q (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-MX3-Q; JKMSxxxM-60HBL-MX3-Q (xxx=270-340, in steps of 5, 120 cells)  
 JKMSxxxM-72H-TI; JKMSxxxM-72HL-TI; JKMSxxxM-72HB-TI; JKMSxxxM-72HBL-TI (xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-TI; JKMSxxxM-60HL-TI; JKMSxxxM-60HB-TI; JKMSxxxM-60HBL-TI (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-TI-Q; JKMSxxxM-72HBL-TI-Q (xxx=335-425, in steps of 5, 144 cells) JKMSxxxM-60HL-TI-Q; JKMSxxxM-60HBL-TI-Q  
 (xxx=270-350, in steps of 5, 120 cells) JKMSxxxM-72H-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-78H-TI (xxx=405-445, in steps of 5, 156 cells)



JKMSxxxM-66H-TI (xxx=340-375, in steps of 5, 132 cells)  
 JKMSxxxM-78HB-TI (xxx=405-435, in steps of 5, 156 cells)  
 JKMSxxxM-66HB-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMSxxxM-7RL3-TI (xxx=430-495, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-TI (xxx=360-415, in steps of 5, 132 cells)  
 JKMSxxxM-6TL3-TI (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxN-7RL3-TI (xxx=430-500, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-TI (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-TI (xxx=335-390, in steps of 5, 120 cells)  
 JKMSxxxN-72H-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
 JKMSxxxM-7RL3-B-TI (xxx=425-450, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-B-TI (xxx=360-380, in steps of 5, 132 cells)  
 JKMSxxxN-7RL3-B-TI (xxx=425-450, in steps of 5, 156 cells)  
 JKMSxxxN-72H-MBB-B-TI (xxx=380-400, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-B-TI (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-6TL3 (xxx=335-380, in steps of 5, 120 cells)  
 JKMxxxN-6TL3 (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-B (xxx=380-400, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-B (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72HL-T-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-T-Q (xxx=315-355, in steps of 5, 120 cells)

**With ½ cut of 6" poly c-Si cells:**

JKMxxxPP-72HB (xxx=330-380, in steps of 5, 144 cells)  
 JKMxxxPP-60HB (xxx=260-315, in steps of 5, 120 cells)  
 JKMSxxxPP-72H-MX3; JKMSxxxPP-72HB-MX3; JKMSxxxPP-72HL-MX3; JKMSxxxPP-72HBL-MX3 (xxx=330-380, in steps of 5, 144 cells)  
 JKMSxxxPP-60H-MX3; JKMSxxxPP-60HB-MX3; JKMSxxxPP-60HL-MX3; JKMSxxxPP-60HBL-MX3 (xxx=260-315, in steps of 5, 120 cells)  
 JKMxxxPP-72H; (xxx=330-380, in steps of 5, 144 cells)  
 JKMxxxPP-60H; (xxx=260-315, in steps of 5, 120 cells)

**With 6" mono c-Si cells:**

JKMxxxM-72; JKMxxxM-72(Plus); JKMxxxM-72L; JKMSxxxM-72; JKMSxxxM-72-J  
 (xxx=335-410, in steps of 5, 72 cells)  
 JKMxxxM-60; JKMxxxM-60(Plus); JKMxxxM-60L; JKMSxxxM-60; JKMSxxxM-60-J  
 (xxx=270-340, in steps of 5, 60 cells)  
 JKMxxxM-72B; JKMxxxM-72BL (xxx=335-410, in steps of 5, 72 cells)  
 JKMxxxM-60B; JKMxxxM-60BL (xxx=270-340, in steps of 5, 60 cells)  
 JKMSxxxM-72-MX3; JKMSxxxM-72B-MX3; JKMSxxxM-72L-MX3; JKMSxxxM-72BL-MX3  
 (xxx=335-395, in steps of 5, 72 cells)  
 JKMSxxxM-60-MX3; JKMSxxxM-60B-MX3; JKMSxxxM-60L-MX3; JKMSxxxM-60BL-MX3  
 (xxx=270-340, in steps of 5, 60 cells)  
 JKMSxxxM-72-TI; JKMSxxxM-72L-TI; JKMSxxxM-72B-TI; JKMSxxxM-72BL-TI (xxx=335-410, in steps of 5, 72 cells)  
 JKMSxxxM-60-TI; JKMSxxxM-60L-TI; JKMSxxxM-60B-TI; JKMSxxxM-60BL-TI (xxx=270-340, in steps of 5, 60 cells)  
 MMxxx-72LA-MB; MMxxx-72LA-AB; SMMxxx-72LA-MB; SMMxxx-72LA-MB-TI; SMMxxx-72LA-AB-TI (xxx=335-410, in steps of 5, 72 cells)  
 MMxxx-60LA-MB; MMxxx-60LA-AB; SMMxxx-60LA-MB-TI; SMMxxx-60LA-AB-TI (xxx=270-340, in steps of 5, 60 cells)  
 SMMxxx-72LA-MB-MX3; SMMxxx-72LA-AB-MX3 (xxx=335-395, in steps of 5, 72 cells) SMMxxx-60LA-MB-MX3; SMMxxx-60LA-AB-MX3  
 (xxx=270-340, in steps of 5, 60 cells)

**With 6" poly c-Si cells:**

JKMxxxPP-72; JKMxxxPP-72(Plus); JKMSxxxPP-72; JKMSxxxPP-72-J; (xxx=320-355, in steps of 5, 72 cells)  
 JKMxxxPP-60; JKMxxxPP-60(Plus); JKMSxxxPP-60; JKMSxxxPP-60-J; (xxx=260-290, in steps of 5, 60 cells)  
 JKMxxxPP-72B (xxx=320-355, in steps of 5, 72 cells)  
 JKMxxxPP-60B (xxx=260-290, in steps of 5, 60 cells)  
 JKMSxxxPP-72-MX3; JKMSxxxPP-72B-MX3; JKMSxxxPP-72L-MX3; JKMSxxxPP-72BL-MX3 (xxx=320-355, in steps of 5, 72 cells)  
 JKMSxxxPP-60-MX3; JKMSxxxPP-60B-MX3; JKMSxxxPP-60L-MX3; JKMSxxxPP-60BL-MX3 (xxx=260-290, in steps of 5, 60 cells)

● **Max. system voltage (Up to 1500VDC)**

**With ½ cut of mono c-Si cells:**

JKMxxxN-54HL4R-V (xxx=365-455, in steps of 5, 108 cells)  
 JKxxxN-66H5-BTV (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J, JKMxxxM-72HL4-S-V, JKMxxxM-72HL4-S-V-J  
 (xxx=560-570, in steps of 5, 144 cells)  
 JKMxxxM-60HL4-V, JKMxxxM-60HL4-S-V (xxx=465-470, in steps of 5, 120 cells)  
 JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J, JKMxxxM-72HL4-S-TV, JKMxxxM-72HL4-S-TV-J (xxx=555-565, in steps of 5, 144 cells)  
 JKMxxxN-78HL4-TV (xxx=570-625, in steps of 5, 156 cells)  
 JKMxxxN-78HL4-V (xxx=570-625, in steps of 5, 156 cells)  
 JKMxxxN-7RL3-S-TV, JKMxxxN-7RL3-S-TV-J (xxx=425-500, in steps of 5, 156 cells) JKMxxxN-6RL3-S-TV, JKMxxxN-6RL3-S-TV-J (xxx=355-420, in steps of 5, 132 cells) JKMxxxN-6TL3-S-TV (xxx=325-380, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-S-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-S-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-S-B-V (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-S-V, JKMxxxM-7RL3-S-V-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-S-V, JKMxxxM-6RL3-S-V-J, JKMSxxxM-6RL3-V-MX3 (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-S-V, JKMSxxxM-6TL3-V-MX3 (xxx=335-380, in steps of 5, 120 cells) JKMxxxM-7RL3-S-TV, JKMxxxM-7RL3-S-TV-J (xxx=420-475, in steps of 5, 156 cells) JKMxxxM-6RL3-S-TV, JKMxxxM-6RL3-S-TV-J (xxx=355-400, in steps of 5, 132 cells) JKMxxxM-6TL3-S-TV (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-S-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-S-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-S-B-V (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxM-78HL4-S-V (xxx=565-605, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-S-V, JKMxxxM-72HL4-S-V-J (xxx=475-555, in steps of 5, 144 cells) JKMxxxM-66HL4-S-V (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-V (xxx=400-460, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-V (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-78HL4-S-TV (xxx=555-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-S-TV, JKMxxxM-72HL4-S-TV-J (xxx=475-550, in steps of 5, 144 cells) JKMxxxM-66HL4-S-TV (xxx=440-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-TV (xxx=400-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-TV (xxx=360-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-S-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-S-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-S-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-S-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMSxxxN-6RL3-V-MX3 (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-V-MX3 (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-78HL4-V (xxx=565-605, in steps of 5, 156 cells)  
 MMxxx-78HLD-MBV (xxx=565-605, in steps of 5, 156 cells)  
 JKMxxxM-78HL4-TV (xxx=555-595, in steps of 5, 156 cells)



JKxxxM-66R5-MWV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66R5-BTV (xxx=630-660, in steps of 5, 132 cells)  
 JKxxxM-66H5-MWV (xxx=635-670, in steps of 5, 132 cells)  
 JKxxxM-66H5-BTV (xxx=630-665, in steps of 5, 132 cells)  
 MNxxx-72HLD-MBV (xxx=485-555, in steps of 5, 144 cells)  
 MNxxx-66HLD-MBV (xxx=445-505, in steps of 5, 132 cells)  
 MNxxx-60HLD-MBV (xxx=405-460, in steps of 5, 120 cells)  
 MNxxx-54HLD-MBV (xxx=365-415, in steps of 5, 108 cells)  
 MNxxx-72HLD-BBV (xxx=480-545, in steps of 5, 144 cells)  
 MNxxx-66HLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
 MNxxx-60HLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
 MNxxx-54HLD-BBV (xxx=360-405, in steps of 5, 108 cells)  
 MNxxx-7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)  
 MNxxx-7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)  
 MNxxx-7RLD-BBV (xxx=520-585, in steps of 5, 156 cells)  
 MNxxx-7TLD-BBV (xxx=480-540, in steps of 5, 144 cells)  
 MNxxx-6RLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
 MNxxx-6TLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
 MNxxx-5RLD-BBV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HLM-TV (xxx=425-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-TV (xxx=355-380, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MBB-V-MX3 (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-V-MX3 (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-72HLM-V-MX3 (xxx=420-465, in steps of 5, 144 cells)  
 JKMSxxxM-60HLM-V-MX3 (xxx=350-385, in steps of 5, 120 cells)  
 JKMSxxxM-78H-MBB-V-MX3 (xxx=440-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-MBB-V-MX3 (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-B-V, JKMSxxxM-72HLM-B-V-MX3 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B-V, JKMSxxxM-60HLM-B-V-MX3 (xxx=350-370, in steps of 5, 120 cells)  
 MMxxx-72HLD-MBV (xxx=475-570, in steps of 5, 144 cells)  
 MMxxx-66HLD-MBV (xxx=440-505, in steps of 5, 132 cells)  
 MMxxx-60HLD-MBV (xxx=400-470, in steps of 5, 120 cells)  
 MMxxx-54HLD-MBV (xxx=360-420, in steps of 5, 108 cells)  
 MMxxx-7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)  
 MMxxx-7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)  
 MMxxx-6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)  
 MMxxx-6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)  
 MMxxx-5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)  
 MMxxx-72HLA-BBV-MBB (xxx=385-405, in steps of 5, 144 cells)  
 MMxxx-60HLA-BBV-MBB (xxx=320-335, in steps of 5, 120 cells)  
 MMxxx-72HLA-MBV-MBB, SMMxxx-72HLA-MBV-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MBV-MBB, SMMxxx-60HLA-MBV-MBB-TI (xxx=320-355, in steps of 5, 120 cells)  
 MMxxx-72HLM-MBV (xxx=420-465, in steps of 5, 144 cells)  
 MMxxx-60HLM-MBV (xxx=350-385, in steps of 5, 120 cells)  
 MM-72HLA-BBV-MBB (xxx=385-405, in steps of 5, 144 cells)  
 MM-60HLA-BBV-MBB (xxx=320-335, in steps of 5, 120 cells)

MMxxx-7RLC-BBV (xxx=420-475, in steps of 5, 156 cells)  
MMxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
MMxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
MMxxx-7RLC-MBV, SMMxxx-7RLC-MBV-TI (xxx=430-475, in steps of 5, 156 cells) MMxxx-6RLC-MBV, SMMxxx-6RLC-MBV-TI (xxx=360-400, in steps of 5, 132 cells) MMxxx-6TLC-MBV, SMMxxx-6TLC-MBV-TI (xxx=335-365, in steps of 5, 120 cells) MMxxx-7RLC-ABV, SMMxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
MMxxx-6RLC-ABV, SMMxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
MMxxx-6TLC-ABV, SMMxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
MMxxx-78HLA-MBV-MBB (xxx=440-465, in steps of 5, 156 cells)  
MMxxx-66HLA-MBV-MBB (xxx=370-390, in steps of 5, 132 cells)  
MMxxx-78HLA-MBV, SMMxxx-78HLA-MBV-TI (xxx=405-465, in steps of 5, 156 cells) MMxxx-66HLA-MBV, SMMxxx-66HLA-MBV-TI (xxx=340-390, in steps of 5, 132 cells) MMxxx-78HLA-ABV, SMMxxx-78HLA-ABV-TI (xxx=405-435, in steps of 5, 156 cells) MMxxx-66HLA-ABV, SMMxxx-66HLA-ABV-TI (xxx=340-365, in steps of 5, 132 cells)  
SMMxxx-72HLA-MBV-MX3, SMMxxx-72HLA-ABV-MX3 (xxx=335-395, in steps of 5, 144 cells)  
SMMxxx-60HLA-MBV-MX3, SMMxxx-60HLA-ABV-MX3 (xxx=270-340, in steps of 5, 120 cells)  
MMxxx-72HLA-BBV (xxx=375-425, in steps of 5, 144 cells)  
MMxxx-60HLA-BBV (xxx=315-355, in steps of 5, 120 cells)  
MMxxx-60HLA-MBV, MMxxx-60HLA-ABV, SMMxxx-60HLA-MBV-TI, SMMxxx-60HLA-ABV-TI (xxx=270-350, in steps of 5, 120 cells)  
MMxxx-72HLA-MBV, MMxxx-72HLA-ABV, SMMxxx-72HLA-MBV-TI, SMMxxx-72HLA-ABV-TI (xxx=335-425, in steps of 5, 144 cells)  
MMxxx-78HLA-BBV (xxx=405-455, in steps of 5, 156 cells)  
MNxxx-72HLA-BBV-MBB (xxx=390-420, in steps of 5, 144 cells)  
MNxxx-60HLA-BBV-MBB (xxx=330-350, in steps of 5, 120 cells)  
MNxxx-7RLC-MBV, SMNxxx-7RLC-MBV-TI (xxx=430-475, in steps of 5, 156 cells)  
MNxxx-6RLC-MBV, SMNxxx-6RLC-MBV-TI (xxx=360-400, in steps of 5, 132 cells)  
MNxxx-6TLC-MBV, SMNxxx-6TLC-MBV-TI (xxx=335-365, in steps of 5, 120 cells)  
MNxxx-7RLC-BBV (xxx=425-475, in steps of 5, 156 cells)  
MNxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
MNxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
MNxxx-72HLA-MBV-MBB, SMNxxx-72HLA-MBV-MBB-TI (xxx=385-425, in steps of 5, 144 cells)  
MNxxx-60HLA-MBV-MBB, SMNxxx-60HLA-MBV-MBB-TI (xxx=320-350, in steps of 5, 120 cells)  
MNxxx-7RLC-ABV, SMNxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
MNxxx-6RLC-ABV, SMNxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
MNxxx-6TLC-ABV, SMNxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
MNxxx-72HLA-ABV-MBB, SMNxxx-72HLA-ABV-MBB-TI (xxx=380-400, in steps of 5, 144 cells)  
MNxxx-60HLA-ABV-MBB, SMNxxx-60HLA-ABV-MBB-TI (xxx=315-330, in steps of 5, 120 cells)  
MMxxx-66HLA-BBV (xxx=340-385, in steps of 5, 132 cells)  
JKMxxxN-72HL4-V (xxx=485-575, in steps of 5, 144 cells)  
JKMxxxN-66HL4-V (xxx=445-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4-V (xxx=405-480, in steps of 5, 120 cells)  
JKMxxxN-54HL4-V (xxx=365-455, in steps of 5, 108 cells)  
JKMxxxN-72HL4-TV (xxx=480-575, in steps of 5, 144 cells)  
JKMxxxN-66HL4-TV (xxx=440-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4-TV (xxx=400-480, in steps of 5, 120 cells)  
JKMxxxN-54HL4-TV (xxx=360-430, in steps of 5, 108 cells)  
JKMxxxN-7RL4-V (xxx=535-590, in steps of 5, 156 cells)  
JKMxxxN-7TL4-V (xxx=495-570, in steps of 5, 144 cells)  
JKMxxxN-6RL4-V (xxx=455-495, in steps of 5, 132 cells)  
JKMxxxN-6TL4-V (xxx=415-450, in steps of 5, 120 cells)  
JKMxxxN-5RL4-V (xxx=375-460, in steps of 5, 108 cells)  
JKMxxxN-7RL4-TV (xxx=520-585, in steps of 5, 156 cells)

JKMxxxN-7TL4-TV (xxx=480-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-TV (xxx=440-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-TV (xxx=400-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-TV (xxx=520-585, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-TV (xxx=480-570, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-TV (xxx=440-495, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-TV (xxx=400-450, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
 JKMxxxN-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-TV, JKMxxxM-7RL4-TV-J (xxx=525-590, in steps of 5, 156 cells) JKMxxxM-7TL4-TV, JKMxxxM-7TL4-TV-J (xxx=485-570, in steps of 5, 144 cells) JKMxxxM-6RL4-TV (xxx=445-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-TV (xxx=405-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-V, JKMxxxM-7RL4-V-J (xxx=535-590, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-V, JKMxxxM-7TL4-V-J (xxx=495-570, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-V (xxx=455-495, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-V (xxx=415-450, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-V (xxx=375-405, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J (xxx=475-555, in steps of 5, 144 cells) JKMxxxM-66HL4-V (xxx=440-505, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-V (xxx=400-460, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-V (xxx=360-420, in steps of 5, 108 cells)  
 JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J (xxx=475-550, in steps of 5, 144 cells) JKMxxxM-66HL4-TV (xxx=440-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-TV (xxx=400-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-TV (xxx=360-410, in steps of 5, 108 cells)  
 JKMxxxM-6TL3-B-V, JKMSxxxM-6TL3-B-V-TI (xxx=320-365, in steps of 5, 120 cells) JKMxxxN-6TL3-B-V, JKMSxxxN-6TL3-B-V-TI (xxx=320-365, in steps of 5, 120 cells) JKMxxxM-78H-MBB-V (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-MBB-V (xxx=370-390, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-V (xxx=420-465, in steps of 5, 144 cells)



JKMxxxM-60HLM-V (xxx=350-385, in steps of 5, 120 cells)  
 JKMSxxxM-72H-V-TI ; JKMSxxxM-72HL-V-TI; JKMSxxxM-72HB-V-TI; JKMSxxxM-72HBL-V-TI(xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-V-TI; JKMSxxxM-60HL-V-TI; JKMSxxxM-60HB-V-TI; JKMSxxxM-60HBL-V-TI(xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-V-TI-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-V-TI-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72H-MBB-V-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxM-60H-MBB-V-TI (xxx=320-355, in steps of 5, 120 cells)  
 JKMSxxxM-78H-V-TI (xxx=405-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-V-TI (xxx=340-390, in steps of 5, 132 cells)  
 JKMSxxxM-78H-V-TI-Q (xxx=405-465, in steps of 5, 156 cells)  
 JKMSxxxM-66H-V-TI-Q (xxx=340-390, in steps of 5, 132 cells)  
 JKMSxxxM-78HB-V-TI (xxx=405-435, in steps of 5, 156 cells)  
 JKMSxxxM-66HB-V-TI (xxx=340-365, in steps of 5, 132 cells)  
 JKMSxxxM-7RL3-V-TI (xxx=430-495, in steps of 5, 156 cells)  
 JKMSxxxM-6RL3-V-TI (xxx=360-415, in steps of 5, 132 cells)  
 JKMSxxxM-6TL3-V-TI (xxx=335-380, in steps of 5, 120 cells)  
 JKMSxxxN-72H-MBB-V-TI (xxx=385-425, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-V-TI (xxx=320-350, in steps of 5, 120 cells)  
 JKMSxxxM-7RL3-B-V-TI (xxx=425-480, in steps of 5, 156 cells)  
 JKMSxxxN-7RL3-V-TI (xxx=430-500, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-V-TI (xxx=360-420, in steps of 5, 132 cells)  
 JKMSxxxN-6TL3-V-TI (xxx=335-390, in steps of 5, 120 cells)  
 JKMSxxxM-6RL3-B-V-TI (xxx=360-405, in steps of 5, 132 cells)  
 JKMSxxxN-7RL3-B-V-TI (xxx=425-480, in steps of 5, 156 cells)  
 JKMSxxxN-6RL3-B-V-TI (xxx=360-405, in steps of 5, 132 cells)  
 JKMSxxxN-72H-MBB-B-V-TI (xxx=380-400, in steps of 5, 144 cells)  
 JKMSxxxN-60H-MBB-B-V-TI (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72H-V; JKMxxxM-72HL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-V; JKMxxxM-60HL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72H-V-MX3; JKMSxxxM-72HB-V-MX3; JKMSxxxM-72HL-V-MX3; JKMSxxxM-72HBL-V-MX3(xxx=335-395, in steps of 5, 144cells)  
 JKMSxxxM-60H-V-MX3; JKMSxxxM-60HB-V-MX3; JKMSxxxM-60HL-V-MX3; JKMSxxxM-60HBL-V-MX3(xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-TV; JKMxxxN-72HL-TV (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-TV; JKMxxxN-60HL-TV (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-TV (xxx=390-420, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-TV (xxx=330-350, in steps of 5, 120 cells)  
 JKMxxxM-72H-TV; JKMxxxM-72HL-TV (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-TV; JKMxxxM-60HL-TV (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-TV (xxx=385-405, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-TV (xxx=320-335, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-V (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-V (xxx=320-355, in steps of 5, 120 cells)  
 JKSN3-DCCA-xxx (xxx=410-440, in steps of 5, 156 cells)  
 JKSN3-CCCA-xxx (xxx=345-370, in steps of 5, 132 cells)  
 JKSM3-DCCA-xxx (xxx=400-425, in steps of 5, 156 cells)  
 JKSM3-CCCA-xxx (xxx=340-355, in steps of 5, 132 cells)  
 JKSM3-DACA-xxx (xxx=400-440, in steps of 5, 156 cells)  
 JKSM3-CACA-xxx (xxx=335-370, in steps of 5, 132 cells)  
 JKSM3-DCCA-xxx (xxx=430-450, in steps of 5, 156 cells)  
 JKSM3-CCCA-xxx (xxx=360-380, in steps of 5, 132 cells)



JKMxxxM-78H-V (xxx=405-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-V (xxx=340-390, in steps of 5, 132 cells)  
 JKMxxxM-78HB-V (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB-V (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxN-78H-TV (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-TV (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-72HBL-V; JKMxxxM-72HBL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HBL-V; JKMxxxM-60HBL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-78HB-V (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB-V (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-TV (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-TV (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-72HBL-V; JKMxxxM-72HBL-V (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HBL-V; JKMxxxM-60HBL-V (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-V; JKMxxxM-7RL3-V-J (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-V; JKMxxxM-6RL3-V-J (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-V; JKMxxxN-7RL3-V-J (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-V; JKMxxxN-6RL3-V-J (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-TV; JKMxxxM-7RL3-TV-J (xxx=420-475, in steps of 5, 156 cells) JKMxxxM-6RL3-TV; JKMxxxM-6RL3-TV-J (xxx=355-400, in steps of 5, 132 cells) JKMxxxN-7RL3-TV; JKMxxxN-7RL3-TV-J (xxx=425-500, in steps of 5, 156 cells) JKMxxxN-6RL3-TV; JKMxxxN-6RL3-TV-J (xxx=355-420, in steps of 5, 132 cells) JKMxxxN-72H-MBB-V (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-V (xxx=320-350, in steps of 5, 120 cells)  
 JKMxxxM-72HL-TV-Q (xxx=375-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-TV-Q (xxx=315-355, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-7RL3-B-V (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-B-V (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-72H-MBB-B-V (xxx=380-400, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-B-V (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72HL-V-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-V-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMSxxxM-72HL-V-MX3-Q (xxx=335-395, in steps of 5, 144 cells)  
 JKMSxxxM-60HL-V-MX3-Q (xxx=270-340, in steps of 5, 120 cells)  
 JKMxxxM-78H-V-Q (xxx=405-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-V-Q (xxx=340-390, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV-Q (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV-Q (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-V (xxx=335-390, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-V (xxx=335-380, in steps of 5, 120 cells)  
 JKMxxxN-6TL3-TV (xxx=325-380, in steps of 5, 120 cells)  
 JKMxxxM-6TL3-TV (xxx=325-365, in steps of 5, 120 cells)

**With 6" mono c-Si cells:**

MMxxx-72LA-MBV, MMxxx-72LA-ABV, SMMxxx-72LA-MBV, SMMxxx-72LA-MBV-TI, SMMxxx-72LA-ABV-TI (xxx=335-410, in steps of 5, 72 cells)  
 MMxxx-60LA-MBV, MMxxx-60LA-ABV, SMMxxx-60LA-MBV-TI, SMMxxx-60LA-ABV-TI

(xxx=270-340, in steps of 5, 60 cells)

SMMxxx-72LA-MBV-MX3, SMMxxx-72LA-ABV-MX3 (xxx=335-395, in steps of 5, 72 cells) SMMxxx-60LA-MBV-MX3, SMMxxx-60LA-ABV-MX3  
(xxx=270-340, in steps of 5, 60 cells) JKMSxxxM-72-V-TI; JKMSxxxM-72L-V-TI; JKMSxxxM-72B-V-TI; JKMSxxxM-72BL-V-TI

(xxx=335-410, in steps of 5, 72 cells)

JKMSxxxM-60-V-TI; JKMSxxxM-60L-V-TI; JKMSxxxM-60B-V-TI; JKMSxxxM-60BL-V-TI

(xxx=270-340, in steps of 5, 60 cells)

JKMxxxM-72-V; JKMxxxM-72(Plus)-V; JKMxxxM-72L-V; JKMSxxxM-72-V; JKMSxxxM-72-V-J(xxx=335-410, in steps of 5, 72 cells)

JKMxxxM-60-V; JKMxxxM-60(Plus)-V; JKMxxxM-60L-V; JKMSxxxM-60-V; JKMSxxxM-60-V-J(xxx=270-340, in steps of 5, 60 cells)

JKMSxxxM-72-V-MX3; JKMSxxxM-72B-V-MX3; JKMSxxxM-72L-V-MX3; JKMSxxxM-72BL-V-MX3(xxx=335-395, in steps of 5, 72 cells)

JKMSxxxM-60-V-MX3; JKMSxxxM-60B-V-MX3; JKMSxxxM-60L-V-MX3; JKMSxxxM-60BL-V-MX3(xxx=270-340, in steps of 5, 60 cells)

JKMxxxM-72B-V; JKMxxxM-72BL-V (xxx=335-410, in steps of 5, 72 cells)

JKMxxxM-60B-V; JKMxxxM-60BL-V (xxx=270-340, in steps of 5, 60 cells)

#### With 6" poly c-Si cells:

JKMxxxPP-72-V; JKMxxxPP-72(Plus)-V; JKMSxxxPP-72-V; JKMSxxxPP-72-V-J(xxx=320-355, in steps of 5, 72 cells)

JKMxxxPP-60-V; JKMxxxPP-60(Plus)-V; JKMSxxxPP-60-V; JKMSxxxPP-60-V-J(xxx=260-290, in steps of 5, 60 cells)

JKMSxxxPP-72-V-MX3; JKMSxxxPP-72B-V-MX3; JKMSxxxPP-72L-V-MX3; JKMSxxxPP-72BL-V-MX3(xxx=320-355, in steps of 5, 72 cells)

JKMSxxxPP-60-V-MX3; JKMSxxxPP-60B-V-MX3; JKMSxxxPP-60L-V-MX3; JKMSxxxPP-60BL-V-MX3(xxx=260-290, in steps of 5, 60 cells)

JKMxxxPP-72B-V (xxx=320-355, in steps of 5, 72 cells)

JKMxxxPP-60B-V (xxx=260-290, in steps of 5, 60 cells)

#### With ½ cut of 6" poly c-Si cells:

JKMxxxPP-72H-V (xxx=330-380, in steps of 5, 144 cells)

JKMxxxPP-60H-V (xxx=260-315, in steps of 5, 120 cells)

JKMSxxxPP-72H-V-MX3; JKMSxxxPP-72HB-V-MX3; JKMSxxxPP-72HL-V-MX3; JKMSxxxPP-72HBL-V-MX3(xxx=330-380, in steps of 5, 144 cells)

JKMSxxxPP-60H-V-MX3; JKMSxxxPP-60HB-V-MX3; JKMSxxxPP-60HL-V-MX3; JKMSxxxPP-60HBL-V-MX3(xxx=260-315, in steps of 5, 120 cells)

JKMxxxPP-72HB-V (xxx=330-380, in steps of 5, 144 cells)

JKMxxxPP-60HB-V (xxx=260-315, in steps of 5, 120 cells)

#### With ½ cut of mono c-Si cells:

JKMxxxN-72HL4R-V (xxx=485-575, in steps of 5, 144 cells)

JKMxxxN-60HL4R-V (xxx=405-480, in steps of 5, 120 cells)

JKMxxxN-72HL4R-TV (xxx=480-575, in steps of 5, 144 cells)

#### With ½ cut of mono c-Si cells:

JKMxxxN-72HL4-V, JKMxxxN-72HL4R-V (xxx=580-600, in steps of 5, 144 cells)

JKMxxxN-60HL4-V, JKMxxxN-60HL4R-V (xxx=485-500, in steps of 5, 120 cells) JKMxxxN-72HL4-TV, JKMxxxN-72HL4R-TV (xxx=580-605, in steps of 5, 144 cells)

#### ● Max. system voltage (Up to 1500VDC)

#### With 1/2 cut of mono c-Si cells:

JKBSxxxM-48HL4-BDVP (xxx=335-375, in steps of 5, 96 cells)

JKBSxxxM-22.5HL4-BDVP (xxx=160-175, in steps of 5, 45 cells)

JKxxxM-66R5-BGV (xxx=630-665, in steps of 5, 132 cells)

JKxxxM-66H5-BGV (xxx=635-670, in steps of 5, 132 cells)

JKMxxxN-78HL4-BDV (xxx=570-625, in steps of 5, 156 cells)

JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J (xxx=480-575, in steps of 5, 144 cells) JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)

JKMxxxN-60HL4-BDV (xxx=400-470, in steps of 5, 120 cells)

JKMxxxN-54HL4-BDV (xxx=360-425, in steps of 5, 108 cells)

JKMxxxN-7RL4-BDV, JKMxxxN-7RL4-BDV-J (xxx=535-595, in steps of 5, 156 cells) JKMxxxN-7TL4-BDV, JKMxxxN-7TL4-BDV-J (xxx=495-545, in steps of 5, 144 cells) JKMxxxN-6RL4-BDV (xxx=455-500, in steps of 5, 132 cells)

JKMxxxN-6TL4-BDV (xxx=415-455, in steps of 5, 120 cells)

JKMxxxN-5RL4-BDV (xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-72H-DV (xxx=390-415, in steps of 5, 144 cells)

JKMxxxM-60H-DV (xxx=325-345, in steps of 5, 120 cells)

JKMxxxM-7RL4-BDVP, JKMxxxM-7RL4-BDVP-J (xxx=535-595, in steps of 5, 156 cells) JKMxxxM-78HL4-BDVP (xxx=570-595, in steps of 5, 156 cells)

JKMxxxM-72HL4-BDVP, JKMxxxM-72HL4-BDVP-J (xxx=500-565, in steps of 5, 144 cells) JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)

JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)

JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-7TL4-BDVP, JKMxxxM-7TL4-BDVP-J (xxx=500-545, in steps of 5, 144 cells) JKMxxxM-6RL4-BDVP (xxx=460-500, in steps of 5, 132 cells)

JKMxxxM-6TL4-BDVP (xxx=420-455, in steps of 5, 120 cells)

JKMxxxM-5RL4-BDVP (xxx=375-410, in steps of 5, 108 cells)

JKMxxxM-72HL-BDV (xxx=390-410, in steps of 5, 144 cells)

JKMxxxM-72H-BDV (xxx=390-410, in steps of 5, 144 cells)

JKMxxxM-60HL-BDV (xxx=325-340, in steps of 5, 120 cells)

JKMxxxM-60H-BDV (xxx=325-340, in steps of 5, 120 cells)

JKMxxxN-72H-MBB-BDV (xxx=390-415, in steps of 5, 144 cells)

JKMxxxN-60H-MBB-BDV (xxx=330-345, in steps of 5, 120 cells)

JKMxxxM-72HL-BDVP (xxx=375-430, in steps of 5, 144 cells)

JKMxxxM-72H-BDVP (xxx=375-430, in steps of 5, 144 cells)

JKMxxxM-60HL-BDVP (xxx=310-355, in steps of 5, 120 cells)

JKMxxxM-60H-BDVP (xxx=310-355, in steps of 5, 120 cells)

JKMxxxM-72H-MBB-BDVP (xxx=380-415, in steps of 5, 144 cells)

JKMxxxM-60H-MBB-BDVP (xxx=315-345, in steps of 5, 120 cells)

JKSN3-DDCA-xxx (xxx=405-435, in steps of 5, 156 cells)

JKSN3-CDCA-xxx (xxx=345-365, in steps of 5, 132 cells)

JKSM3-DDCA-xxx (xxx=405-430, in steps of 5, 156 cells)

JKSM3-CDCA-xxx (xxx=345-360, in steps of 5, 132 cells)

JKMxxxN-78H-BDV (xxx=415-460, in steps of 5, 156 cells)

JKMxxxN-66H-BDV (xxx=350-385, in steps of 5, 132 cells)

JKMxxxN-7RL3-BDV (xxx=440-490, in steps of 5, 156 cells)

JKMxxxN-6RL3-BDV (xxx=375-410, in steps of 5, 132 cells)

JKMxxxM-78H-BDVP (xxx=415-455, in steps of 5, 156 cells)

JKMxxxM-66H-BDVP (xxx=350-385, in steps of 5, 132 cells)

JKMxxxM-7RL3-BDVP; JKMxxxM-7RL3- BDVP-J (xxx=440-465, in steps of 5, 156 cells) JKMxxxM-6RL3- BDVP; JKMxxxM-6RL3- BDVP-J (xxx=375-390, in steps of 5, 132 cells) JKMxxxM-78HL3-BDVP, JKMxxxM-78HL3-MBB-BDVP (xxx=450-480, in steps of 5, 156 cells)

JKMxxxM-66HL3-BDVP, JKMxxxM-66HL3-MBB-BDVP (xxx=380-405, in steps of 5, 132 cells)

JKMxxxM-72HLM-BDVP (xxx=415-460, in steps of 5, 144 cells)

JKMxxxM-60HLM-BDVP (xxx=345-380, in steps of 5, 120 cells)

JKBSxxxN-48HL4-BDV (xxx=355-380, in steps of 5, 96 cells)

JKBSxxxN-22.5HL4-BDV (xxx=165-180, in steps of 5, 45 cells)

#### With 6" mono c-Si cells:

JKMxxxM-72L-BDV (xxx=375-405, in steps of 5, 72 cells)

JKMxxxM-72-BDV (xxx=375-405, in steps of 5, 72 cells)

JKMxxxM-60L-BDV (xxx=310-335, in steps of 5, 60 cells)

JKMxxxM-60-BDV (xxx=310-335, in steps of 5, 60 cells)

JKMxxxM-72L-BDVP (xxx=370-410, in steps of 5, 72 cells)

JKMxxxM-72-BDVP (xxx=370-410, in steps of 5, 72 cells)

JKMxxxM-60L-BDVP (xxx=305-340, in steps of 5, 60 cells)

JKMxxxM-60-BDVP (xxx=305-340, in steps of 5, 60 cells)



JKMxxxM-72-DV (xxx=385-405, in steps of 5, 72 cells)

**With 1/2 cut of mono c-Si cells:**

JKMxxxN-72HL4R-BDV (xxx=480-575, in steps of 5, 144 cells)

JKMxxxN-60HL4R-BDV (xxx=400-470, in steps of 5, 120 cells)

JKMxxxN-54HL4R-BDV (xxx=360-425, in steps of 5, 108 cells)

**With 1/2 cut of mono c-Si cells:**

JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J, JKMxxxN-72HL4R-BDV (xxx=580-610, in steps of 5, 144 cells)

JKMxxxN-60HL4-BDV, JKMxxxN-60HL4R-BDV (xxx=475-505, in steps of 5, 120 cells) JKMxxxN-54HL4-BDV, JKMxxxN-54HL4R-BDV (xxx=430-455, in steps of 5, 108 cells)

End of the list

A handwritten signature in black ink, appearing to be a stylized representation of the letters 'S' and 'Z'.

Certification Body  
at TÜV NORD (Hangzhou) Co., Ltd.

Printing at  
TÜV NORD (Hangzhou) Co., Ltd. Shanghai Branch  
Issue Date: 2022-12-29

This certification was conducted in accordance with the TÜV NORD (Hangzhou) Co., Ltd. auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD (Hangzhou) Co., Ltd.

Room B409, Building 1, No.9 Jiuhuan Road, Shangcheng District, Hangzhou, Zhejiang Province, 310019, China  
[www.tuv-nord.com.cn](http://www.tuv-nord.com.cn)



# Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1933091**

Certificate Holder: **Jinko Solar Co., Ltd.**  
Unified Social Credit Code: 91361100794799028G  
Registration Address: No.1, Yingbin Road,  
Economic Development Zone, Shangrao City,  
334100 Jiangxi, P.R. China  
Operation Address: No.1 Jinko Road, Shangrao Economic  
Development Zone, 334100 Jiangxi, P. R. China

Scope: Design and Manufacture of Single Crystal Silicon Rods for  
Photovoltaic Solar Cells;  
Design and Manufacture of Silicon Wafers for Photovoltaic Solar  
Cell;  
Design and Manufacture of Photovoltaic Solar Cells;  
Design and Manufacture of Photovoltaic Solar Modules.

Proof has been furnished by means of an audit that the  
requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2023-01-10 until 2026-01-09.  
It remains valid subject to satisfactory surveillance audits.  
First certification 2019  
This certificate information can be searched on CNCA official  
website <http://www.cnca.gov.cn>

2023-01-05



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

**Authorized responsible office:** TÜV Rheinland China Ltd., Room 301, 3F and Room 1203,  
12F, Building 4, No.15, Ronghua South Road, Beijing Economic-Technological  
Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free  
Trade Zone), 100176, P. R. China

# Certificate

Standard **ISO 14001:2015**

Certificate Registr. No. **01 104 1933091**

Certificate Holder: **Jinko Solar Co., Ltd.**  
No.1, Jinko Road, Shangrao Economic Development Zone,  
334100 Jiangxi, P. R. China

Scope: Design and Manufacture of Single Crystal Silicon Rods for  
Photovoltaic Solar Cells;  
Design and Manufacture of Silicon Wafers for Photovoltaic Solar  
Cell;  
Design and Manufacture of Photovoltaic Solar Cells;  
Design and Manufacture of Photovoltaic Solar Modules.

Proof has been furnished by means of an audit that the  
requirements of ISO 14001:2015 are met.

Validity: The certificate is valid from 2023-01-10 until 2026-01-09.  
It remains valid subject to satisfactory surveillance audits.  
First certification 2019

2023-01-05



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

**Authorized responsible office:** TÜV Rheinland China Ltd., Room 301, 3F and Room 1203,  
12F, Building 4, No.15, Ronghua South Road, Beijing Economic-Technological  
Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free  
Trade Zone), 100176, P. R. China

www.tuv.com



# Certificate

Standard **ISO 45001:2018**

Certificate Registr. No. **01 213 1933091**

Certificate Holder: **Jinko Solar Co., Ltd.**  
No.1, Jinko Road, Shangrao Economic Development Zone,  
334100 Jiangxi, P. R. China

Scope: Design and Manufacture of Single Crystal Silicon Rods for  
Photovoltaic Solar Cells;  
Design and Manufacture of Silicon Wafers for Photovoltaic Solar  
Cell;  
Design and Manufacture of Photovoltaic Solar Cells;  
Design and Manufacture of Photovoltaic Solar Modules.

Proof has been furnished by means of an audit that the  
requirements of ISO 45001:2018 are met.

Validity: The certificate is valid from 2023-01-10 until 2026-01-09.  
It remains valid subject to satisfactory surveillance audits.  
First certification 2019

2023-01-05



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

**Authorized responsible office:** TÜV Rheinland China Ltd., Room 301, 3F and Room 1203,  
12F, Building 4, No.15, Ronghua South Road, Beijing Economic-Technological  
Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free  
Trade Zone), 100176, P. R. China

Certificate CN19/30923.00

The management system of

# Jinko Solar Co., Ltd.

Unified Social Credit Code 91361100794799028G

Business Registration Address: No. 1, Yingbin Road, Economic and Technological Development Zone, Shangrao, Jiangxi Province

Business Operation Address: No. 1, Jinko Road, Economic Development Zone, Shangrao City, Jiangxi Province, P.R. China

has been assessed and certified as meeting the requirements of

## GB/T 23331-2020/ ISO 50001:2018 RB/T 101-2013

For the following activities

**The scope of this certification appears on page 2 of this certificate.**

For the detail information regarding boundaries and comprehensive energy consumption, please see the appendix with the same number of this certificate and it is the component of this certificate.

This certificate is valid from 28 May 2022 until 27 May 2025  
and remains valid subject to satisfactory surveillance audits.

Re certification audit due a minimum of 60 days before the expiration date  
Issue 5. Certified since 28 May 2019

Multiple certificates have been issued for this scope  
The main certificate is numbered CN19/30923.00

This is a multi-site certification  
Additional site details are listed on subsequent pages

Authorised by



SGS CSTC Standards Technical Services Co., Ltd.  
16F Century YuHui Mansion, No. 73 Fucheng Road, Beijing, P.R. CHINA 100142  
t +86 (0)10 6845-6699 f +86 (0)10 6845-8121 [www.sgs.com](http://www.sgs.com)

The certification information can be verified on the web site of Certification and Accreditation Administration of the People's Republic of China [www.cnca.gov.cn](http://www.cnca.gov.cn)







## LIMITED WARRANTY

REV.EN20240401-LINEAR-BIFACIAL MODULE FOR EU

Jinko Solar Import and Export Co., Ltd. or its affiliates (hereinafter referred to as "Jinko" ) generally provide the Warranties set forth herein to the original purchaser and its successors and permitted assigns (hereinafter referred to as "Customer" ) with respect to any solar photovoltaic module (hereinafter referred to as "Module" ) set forth herein sold by Jinko under purchase agreements signed on or after 1<sup>st</sup> April, 2024 subject to the terms and conditions herein (hereinafter referred to as "Limited Warranty" ). Jinko and Customer may hereinafter be referred to each as a "Party" and collectively as the "Parties" .

This Limited Warranty is only applicable to Modules sold and/or delivered to European countries.

Types of Modules covered by this Limited Warranty						
Series	Module Type	Limited Product Warranty Period (Years)	Limited Power Warranty Period (Years)	First Year Degradation Rate	Annual Degradation Rate	Pmin At The End Of Power Warranty Period
Tiger Neo	JKMxxxN-54HL4R-BDB	25	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-66HL5-BDV	12	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-54HL4R-BDV	15	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-66HL4M-BDV	12	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-78HL4-BDV	12	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-72HL4-BDV	12	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-72HL4-BDV-U	12	30	1.00%	0.40%	87.40%
Tiger Neo	JKMxxxN-72HL4-BDX	12	30	1.00%	0.40%	87.40%
Tiger Pro	JKMxxM-72HL4-TV	12	30	2.00%	0.45%	84.95%
Tiger Pro	JKMxxxM-72HL4-BDVP	12	30	2.00%	0.45%	84.95%
Tiger P-type	JKMxxxM-7RL3-TV	12	30	2.00%	0.45%	84.95%

Table 1. Types of Modules covered by this Limited Warranty



# LIMITED WARRANTY

REV.EN20240401-LINEAR-BIFACIAL MODULE FOR EU

## 1. LIMITED WARRANTY

### 1.1 Definitions and Table Description

#### Actual Power Output.

Actual Power Output means the power output of the Module, expressed in Watts, measured at STC at a given point in time in a year after the Warranty Start Date, corrected for any measurement error, as per IEC 61215.

#### Annual Degradation Rate.

For each year after the first year following the Warranty Start Date until the end of the applicable Limited Power Warranty Period, Jinko warrants that the Degradation Rate of Modules shall not exceed the applicable Annual Degradation Rate set forth at Table 1 applicable for each Module Type.

#### Degradation Rate.

Degradation Rate means any positive amount calculated in accordance with the following formula, expressed as a percent:

Degradation Rate = (Nominal Power Output-Actual Power Output)/Nominal Power Output×100%

#### First Year Degradation Rate.

In the first year following the Warranty Start Date, the applicable maximum Degradation Rate of Modules set forth at Table 1.

#### Nominal Power Output.

Nominal Power Output means the original manufactured nameplate specification of power in the Module (Maximum Power,  $P_{max}$ ), expressed in Watts, and measured at STC, excluding any specified positive tolerance.

#### Standard Test Conditions (STC).

① Air mass 1.5, ② Irradiance 1000W/m<sup>2</sup>, ③ Cell Temperature 25°C

#### Warranty Start Date.

Jinko provides the Limited Warranty set forth herein commencing upon the earlier of one of the following dates:

- A. The date which is one hundred and eighty (180) days following the Module manufacture date, as indicated by the serial number[digit no. 7-11 (YYMDD)] starting from the left side of the serial number, with the letter corresponding to the month as indicated in the table below for such Module.

letter	A	B	C	D	E	F	G	H	J	K	L	M
month	1	2	3	4	5	6	7	8	9	10	11	12

- B. Delivery date of a Module to the original purchaser thereof.



## LIMITED WARRANTY

REV.EN20240401-LINEAR-BIFACIAL MODULE FOR EU

**P<sub>1st year,%</sub>**•

**P<sub>1st year,%</sub>** represents the warranted Actual Power Output of Modules at the end of the first year following the Warranty Start Date.

$$P_{1st\ year,\%} = 100\% * (1 - \text{First Year Degradation Rate})$$

**P<sub>N year,%</sub>**•

**P<sub>N year,%</sub>** represents the warranted Actual Power Output of Modules at the end of a year (N) after the first year following the Warranty Start Date until the end of the applicable Limited Power Warranty Period as specified at Table 1.

$$P_{N\ year,\%} = 100\% * (1 - (\text{First Year Degradation Rate} + \text{Annual Degradation Rate} * (N-1))),$$

With  $N, 2 \leq N \leq \text{Limited Power Warranty Period}$

### 1.2 Limited Product Warranty

Beginning on the Warranty Start Date and for the Limited Product Warranty Period, Jinko warrants that the Module and its respective DC connectors and cables (hereinafter referred to as the "Products" ) will be free from material defects in workmanship which impair the performance of the Products. Material defects shall not include changes in appearance or normal wear and tear of the Products.

### 1.3 Limited Power Warranty

Beginning on Warranty Start Date and for the first year following the Warranty Start Date, Jinko warrants that the Degradation Rate of Modules shall not exceed the applicable First Year Degradation Rate; for each year after the first year, the Degradation Rate of Modules shall not exceed the applicable Annual Degradation Rate, as set forth at Table 1.

## 2. Warranty Claim and Remedies

### 2.1 Warranty Claim

- a) Customer shall bear the burden of establishing a breach of the Limited Product Warranty or Limited Power Warranty (collectively, "Warranties" ), and if Customer believes that there has been a breach of the Warranties, Customer shall promptly and no later than thirty (30) days via email [cs.eu@jinkosolar.com](mailto:cs.eu@jinkosolar.com) or [cs.italy@jinkosolar.com](mailto:cs.italy@jinkosolar.com) after knowledge thereof, provide notice to Jinko setting forth the following evidentiary documents or information related to the claim:
- 1) Identifying information of the claimant;
  - 2) A detailed description of the claim;
  - 3) Supporting materials including photos of affected modules or testing reports;
  - 4) Serial number, types, and numbers of affected module;
  - 5) Evidence of purchase of the affected Module and Warranty Start Date;
  - 6) Initial installation location;
  - 7) Other supplementary information required by Jinko; and



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8) Upon request by Jinko, the actual Module(s) allegedly causing the breach. In the event that Customer fails to notify Jinko and provide the relevant information of (1)-(8) as described above, Jinko is entitled to refuse to process the relevant claim without any liability.

- b) Jinko will review and evaluate alleged claims after receipt of the claim and full information as stipulated herein. If Jinko at its sole discretion considers it necessary, Jinko can request the Modules be shipped to the Independent Testing Lab for testing. In the event Customer returns the Modules without written consent from Jinko, the risks (including but not limited to damage and loss of the Modules) and expenses related to the Modules shall be borne by Customer.
- c) Notwithstanding anything to the contrary herein, Jinko shall be entitled, in Jinko's sole discretion upon written notice to Customer, to require that any breach of the Warranties alleged by Customer be reviewed by TÜV Rheinland, TÜV SÜD or other neutral third party testing laboratory selected by Jinko and approved by Customer, such approval not to be unreasonably withheld or delayed ( "Independent Testing Lab" ). The power measurement tolerance of any testing equipment utilized by any Independent Testing Lab in performing tests required by this Section 2.1 (c)] shall be disclosed in writing to both Parties prior to performance of any such tests and shall be reflected in any final test results provided by the Independent Testing Lab. The determination by an Independent Testing Lab as to whether a breach has occurred shall be final and conclusive with respect to the matters covered by such determination. In all measurements of Actual Power Output, the effect of test uncertainty needs to be considered as per IEC 61215.
- d) Jinko shall first bear reasonable testing costs incurred by the Independent Testing Lab pursuant to Section 2.1(c) hereto, including but not limited to shipping, testing services, and insurance. However, Customer shall promptly upon receipt of notice indemnify Jinko for all such costs on a dollar-for-dollar basis in the event that the Independent Testing Lab is unable to confirm a breach of the Warranties or, if no Independent Testing Lab was utilized, Customer is otherwise unable to establish a breach of the Warranties.
- e) Notwithstanding anything to the contrary in this Limited Warranty, Jinko shall not be liable to the successors and permitted assigns of the Limited Warranty for the portion of warranty benefits that arising from the similar root cause and has already been processed and/or enjoyed prior to the transfer of this Limited Warranty. For the avoidance of doubt, the benefits of the successors and permitted assigns of the Limited Warranty shall exclude the portion claimed by the previous Customer.

## 2.2 Remedies for Claims

### a) Remedies Option

In the event that the Module(s) breaches the Warranties, then Jinko shall, at its sole discretion, provide one of the following remedies:





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- 1) Repair the defective Modules. In such case, Jinko shall prepare the repair project plan and carry out the repair project for the affected modules; or
- 2) Replace the defective Modules. In such case, the replacement modules' Actual Power Output shall be no less than the Theoretical Minimum Residual Warranty Power Output of the replaced Module(s)  
Theoretical Minimum Residual Warranty Power Output = Nominal Power Output \* (1 - (First Year Degradation Rate + Annual Degradation Rate \* (N-1)))  
Note: year N,  $0 \leq N \leq \text{Limited Power Warranty Period}$ ; or
- 3) Refund the **Residual Value** of the defective modules or refund the **Value Equivalent of the Output Gap** (Gap between the Theoretical Minimum Residual Warranty Power Output and the Actual Power Output of the defective Module(s))

Residual Value = Current Price (price-per-watt) \* Nominal Power Output \* (Left-over Limited Power Warranty Period / Limited Power Warranty Period)

Value Equivalent of Output Gap = Current Price (price-per-watt) \* (Theoretical Minimum Residual Warranty Power Output – Actual Power Output)

*The Current Price (price-per-watt) is determined by Jinko; or*

- 4) Provide additional Module(s) to compensate for the power output loss for any Module which causes a breach of the Warranties.

### b) Remedies Description

Unless otherwise agreed in writing, additional, repaired or replacement Modules shall be delivered to the same destination and on the same INCOTERMS 2020 delivery basis that the original Module causing breach of the Warranties was delivered under the purchase agreement to which this Limited Warranty applies. Replaced Modules received by Jinko pursuant to Section 2.2 shall be the sole property of Jinko. Jinko shall be solely responsible for all shipping costs incurred performing its additional supply, repair or replacement obligations under this Section 2.2(b). For avoidance of doubt, it is expressly stated here that any costs incurred due to dismantling, repacking, installation or re-installation the Module(s) and other related expenses shall be borne by the Customer. Additional or replacement Modules shall be of the same type and physical form as the original Module, electrically compatible with the original Module, and have an electrical output of not less than the warranted power output of the original Module at the time of supply or replacement, based on the warranted degradation rates set forth at Section 1 hereto. Notwithstanding the foregoing, if Jinko no longer supplies Modules meeting the foregoing criteria, then additional or replacement Modules provided under this Section 2.2(b) shall be those Modules then supplied by Jinko most substantially meeting the foregoing criteria. Jinko's performance of any repair, replacement or additional supply pursuant to this Section 2.2(b) shall not extend the term of any Warranties.

Unless otherwise agreed upon in the underlying purchase agreement, Customer shall dispose of out-of-use Module (s) in accordance with applicable regulations on electronic waste treatment and disposal at its own cost and the same shall not be reworked, re-sold or re-used



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in any way. If Jinko determines to retrieve such Modules, the ownership of same is deemed to belong to Jinko, and Jinko shall bear the transportation costs related with delivery of the Module(s) from their original place to the destination location designated by Jinko.

### c) Exclusions

This Limited Warranty is subject to the exclusions set forth in this Section 2.2(c). The Warranties shall not apply to any Module or Products which have been:

- 1) Altered, repaired or modified without the prior written consent of Jinko or otherwise inconsistent with Jinko' s written instructions; or
- 2) Used in a manner inconsistent with the version of Jinko Installation Manual available at <https://jinkosolar.eu> on the date the Module is manufactured; or
- 3) Removed and re-installed at any location other than the physical location in which it was originally installed following purchase by Customer or receipt from Jinko as a replacement Module; or
- 4) Subject to misuse, abuse, neglect, or accident except as may be caused by Jinko in the course of storage, transportation, handling, installation, application, use or service; or
- 5) Subject to power surges, lightning, floods, fires, natural disasters and other force majeure or module damage due to war, tampering, vandalism, accidental breakage, or other events beyond Jinko' s control, resulting in material damages to the Module; or
- 6) Installed on mobile platforms (other than single or dual-axis trackers) or in a marine environment; or
- 7) Subject to direct contact with corrosive agents or salt water, pest damage, or malfunctioning PV system components; or
- 8) Exposure to voltage in excess to the maximum system voltage or power surges; or
- 9) Use of the Products in such a manner as to infringe Jinko' s or any third party's intellectual property rights (including but not limited to patents, trademarks, etc.).

The Warranties shall not apply to any Module (and/or Product if applicable) for which the labels thereon indicating type or serial number have been altered, removed or made illegible. The Warranties shall not apply to any Module and Product for which full and final payment has not been received by Jinko or for Modules which are purchased through unauthorized sales channels or for Modules which are not genuine and are found to be counterfeit.

## 3. LIMITS OF LIABILITY

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS LIMITED WARRANTY, EXCEPT AS EXPRESSLY PROVIDED HEREIN, JINKO MAKES NO WARRANTIES, GUARANTEES OR CONDITIONS, EXPRESS OR IMPLIED, ARISING FROM OR RELATING TO THE MODULES AND JINKO DISCLAIMS ANY WARRANTY OR GUARANTEE IMPLIED BY LAW, INCLUDING IMPLIED WARRANTIES OF PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND IMPLIED WARRANTIES OF CUSTOM OR USAGE, ARISING FROM OR RELATING TO THE MODULES. THE REMEDIES FOR BREACH OF THIS WARRANTY ARE CUSTOMER' S SOLE AND EXCLUSIVE REMEDIES ARISING FROM OR RELATING TO ANY BREACH OF THE WARRANTIES. IN NO EVENT SHALL JINKO BE RESPONSIBLE PURSUANT TO THIS WARRANTY FOR ANY PERFORMANCE



## **LIMITED WARRANTY**

**REV.EN20240401-LINEAR-BIFACIAL MODULE FOR EU**

ANALYSIS, INSPECTION, DIAGNOSIS, REMOVAL, CUSTOMS, IMPORT DUTIES, EXPORT DUTIES, TAXES, REINSTALLATION COSTS, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING LOSSES OR DAMAGES CAUSED BY REASON OF LOSS OF USE, LOSS OF PROFITS OR REVENUE, INTEREST CHARGES (EXCEPT AS EXPRESSLY PROVIDED HEREIN), LOSS OF BONDING CAPACITY, COST OF CAPITAL OR CLAIMS OF CUSTOMER DAMAGES, WHETHER LIABILITY ARISES AS A RESULT OF BREACH OF CONTRACT, TORT LIABILITY (INCLUDING NEGLIGENCE), STRICT LIABILITY, BY OPERATION OF LAW OR IN ANY OTHER MANNER. EXCEPT AS SET OUT IN THIS LIMITED WARRANTY, JINKO SHALL HAVE NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR DAMAGE OR INJURY TO PERSONS OR PROPERTY, OR FOR OTHER LOSS OR INJURY RESULTING FROM ANY CAUSE WHATSOEVER ARISING OUT OF OR RELATED TO THIS LIMITED WARRANTY.

### **4. ASSIGNMENT**

Notwithstanding anything to the contrary herein, this Limited Warranty is for the sole and exclusive benefit of Customer and there are no third party beneficiaries hereof; provided, however, subject to written notice to Jinko and Jinko's receipt of full and final payment for the Modules, this entire Limited Warranty may be assigned in whole but not in part to any person or entity. Any permitted assignee of this Limited Warranty shall execute such agreements as may reasonably be requested by Jinko to confirm the applicability of any term hereof as a condition to assignment.

### **5. LAW AND FORUM**

Any dispute related to or arising out of this Limited Warranty, including without limitation any question regarding its existence, validity, breach, or termination, shall be referred to and finally resolved pursuant to the governing law clauses and dispute resolution procedures under the purchase agreement between the original purchaser and Jinko. As a condition to any obligation of Jinko hereunder, Jinko may require any Customer seeking to enforce this Limited Warranty to execute such additional agreements as may reasonably be required to enforce the terms of this Section 5.

### **6. MERGER CLAUSE**

This Limited Warranty sets forth the entire agreement and understanding of the Parties relating to the subject matter herein and supersedes all prior or contemporaneous discussions, understandings and agreements, whether oral or written, between them relating to the subject matter hereof.

### **7. SEVERABILITY**

If one or more provisions of this Limited Warranty are held to be unenforceable under applicable law, the Parties agree to renegotiate such provision in good faith. In the event that the Parties cannot reach a mutually agreeable and enforceable replacement for such provision, then (a) such provision shall be excluded from this Limited Warranty, (b) the balance of this Limited Warranty



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shall be interpreted as if such provision were so excluded and (c) the balance of this Limited Warranty shall be enforceable in accordance with its terms.

## 8. MISCELLANEOUS

The terms of this Limited Warranty are conditioned upon their incorporation in a contractual agreement between Jinko and Customer, and when incorporated to such contractual agreement, this Limited Warranty shall be subject to the terms thereof and subject to modification when incorporated therein. Jinko reserves the right to modify or update this Limited Warranty at any time, with or without notice.

**[END OF LIMITED WARRANTY]**





## Certificate of Factory Production Control

This certificate has been issued to

***Jinko Solar Co., Ltd.***

of

No.1, Yingbin Road  
Economic Development Zone  
Shangrao City  
Jiangxi Province  
334100  
People's Republic of China

whose production management system has been assessed and found to comply  
with the Factory Production Control Requirements of the MCS Product  
Certification Scheme in respect of:

### Production of Photovoltaic Solar Panels

at the address(s) listed on the Annex of this certificate

and includes the ranges of

### Photovoltaic Solar Panels

as detailed on the attached annex to this certificate

Signed: 

on behalf of TUV SUD BAPT UNLIMITED

Certificate Number: BAPT 8801 R4

Valid from: 06 December 2023

This Certificate expires on:

23 May 2025



CERTIFIED

The holder of this certificate is authorised to use the MCS Approved Product Mark. This certificate has been issued in accordance with the Testing and Certification Regulations of TUV SUD. Conditions of validity of this certificate, if any, are listed in the Annex. This certificate constitutes page 1 of the combined Certificate and Annex.

For further details related to this certification please contact [BAPT@tuvsud.com](mailto:BAPT@tuvsud.com)

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



## 1 Manufacturing Location

Facility 1	Facility 2	Facility 3
Jinko Solar Co., Ltd. No.1, Jinko Road Shangrao Economic Development Zone Jiangxi Province 334100 P.R.China	Jinko Solar (Shangrao) Co., Ltd. No.1, Yingbin Road Economic Development Zone Shangrao City Jiangxi Province 334100 P.R.China	Jinko Solar (Yiwu) Co., Ltd. No.1555, Chengxin Road Niansanli Street Yiwu City Zhejiang Province 322014 P.R.China

Facility 4	Facility 5	Facility 6
Jinko Solar (Chuzhou) Co., Ltd. No.18, Liming Road Lai'an Economic Development Zone Chuzhou City Anhui Province 239200 P.R.China	Zhejiang Jinko Solar Co., Ltd. No.58, Yuanxi Road Yuanhua Town Haining City Jiaxing City Zhejiang Province 314416 P.R.China	Yuhuan Jinko Solar Co., Ltd. No.5, Jinghai Road Economic Development Zone Yuhuan City Zhejiang Province 317600 P.R.China

Facility 7	Facility 8	Facility 9
Jinko Solar Technology Sdn. Bhd. Lot 393, Ladang Valdor Kawasan Perindustrian Valdor Sungai Jawi Pulau Pinang 14200 Malaysia	Jinko Solar Technology Sdn. Bhd. No.1412, Lorong Perusahaan 1 Kawasan Perusahaan Perai Perai Pulau Pinang 13600 Malaysia	Jinko Solar Technology Sdn. Bhd 2480, Tingkat Perusahaan Enam Perai Free Trade Zone Perai Penang 13600 Malaysia

Facility 10	Facility 11	Facility 12
Jinko Solar Technology Sdn. Bhd. Lot 10085, Plot C & D Jalan Perusahaan, Mukim 1 Seberang Perai Tengah Perai Penang 13600 Malaysia	Jinko Solar Technology Sdn. Bhd. Plot 538, Tingkat Perusahaan 4B Perai Free Trade Zone Perai Penang 13600 Malaysia	Jinko Solar (Haining) Co., Ltd. No.199, Xinyue Road Huangwan Town Haining City Zhejiang Province 314415 P.R.China

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



Facility 13	Facility 14	Facility 15
Viet Nam Green Energy Commercial Services Co., Ltd. Lot D1-1, Dai Dong- Hoan Son Industrial Park Hoan Son Commune Tien Du District Bac Ninh Province 999100 Vietnam	HT Solar Vietnam Limited Company Factory F3-1 and F3-2 Lot F3, Trang Due Industrial Park a part of Dinh Vu-Cat Hai Economic Zone Hong Phong Commune An Duong District Hai Phong City 180000 Vietnam	Jiangsu Focus Solar Energy Technology Co., Ltd. No.66, Lifa Avenue Development Zone Hai'an County Nantong City Jiangsu Province 226600 P.R.China

Facility 16	Facility 17	Facility 18
LDK Solar Hi-Tech (Nanchang) Co., Ltd. No.1699, Tianxiang Road Hi-Tech Industrial Development Zone Nanchang Jiangxi Province 330096 P.R.China	Jinko Solar (Feidong) Co., Ltd. No.1, southwest corner of the intersection of Longxing Avenue and Shichi Road Hefei Circular Economy Demonstration Park Feidong County Hefei City Anhui Province 231600 P.R.China	Jinko Solar (Vietnam) Industries Company Limited CN-XL-6 11-Song Khoai Industrial Park Song Khoai Commune Quang Yen City Quang Ninh Province 02200 Vietnam

Facility 19	Facility 20	Facility 21
Jinko PV (Shangrao Guangxin) Co., Ltd. No.18, Jianxing Road Chating Economic Development Zone Guangxin District Shangrao City Jiangxi Province 334000 P.R.China	Shangrao Jinko Photovoltaic Manufacturing Co., Ltd. Room 2-1, Office Building 1-1, South of Development Road West of Jinko Redouble Increasing Area Shangrao Economic Development Zone Shangrao City Jiangxi Province 334100 P.R.China	N/A

## 2 Established Conformity

### 2.1 Product Certification Scheme Requirements

Microgeneration Certification Scheme	Revision	Applicability
MCS 005 – Solar Photovoltaic Modules	Issue 3.1	<input checked="" type="checkbox"/>
MCS 010 – Factory Production Control Requirements	Issue 2.0	<input checked="" type="checkbox"/>
MCS 012 – Pitched Roof Installation Kits	Issue N/A	<input type="checkbox"/>
MCS 017 – Bespoke Building Integrated Photovoltaic Products	Issue N/A	<input type="checkbox"/>

### 2.2 Assessment Report

Assessment Report Number	Issue Number	Issue Date
BABT 8801 R4	1	30-11-2023

## 3 Technical Documentation

### 3.1 User Guide

Single Glass Module Installation Manual	Modified	15/02/2023
Dual Glass Installation Manual	Modified	15/02/2023
Installation Manual for Photovoltaic Module Version 23.11.06	Modified	06/11/2023

### 3.2 Test Reports

50087436 001	Issued	08/11/2017
50087436 002	Issued	08/03/2018
50087436 003	Issued	20/04/2018
50087436 004	Issued	11/06/2018
50087436 005	Issued	14/09/2018
50087436 006	Issued	28/09/2018
50087436 007	Issued	25/01/2019
50087436 008	Issued	27/05/2019
50087436 009	Issued	04/07/2019
50087436 010	Issued	03/09/2019
50087436 011	Issued	16/10/2019
50087436 012	Issued	10/12/2019
50087436 014	Issued	20/01/2020
50087436 015	Issued	17/01/2020
50087436 016	Issued	21/01/2020
50087436 017	Issued	02/03/2020
50087436 019	Issued	03/04/2020
50087436 020	Issued	16/04/2020
50087436 021	Issued	17/06/2020
50087436 022	Issued	15/07/2020
50087436 023	Issued	20/08/2020
50087436 025	Issued	28/09/2020
50087436 028	Issued	16/12/2020
50087436 029	Issued	30/12/2020



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50087436 031	Issued	22/03/2021
50087436 033	Issued	28/05/2021
50087436 035	Issued	29/06/2021
50087436 036	Issued	27/07/2021
50087436 038	Issued	26/09/2021
50087436 041	Issued	26/10/2021
50087436 042	Issued	15/11/2021
50087436 045	Issued	15/12/2021
50087436 046	Issued	29/12/2021
50173415 001	Issued	14/09/2018
50173415 002	Issued	27/09/2018
50173415 003	Issued	25/01/2019
50173415 004	Issued	04/03/2019
50173415 005	Issued	11/06/2019
50173415 006	Issued	18/07/2019
50173415 007	Issued	18/07/2019
50173415 008	Issued	02/09/2019
50173415 009	Issued	03/09/2019
50173415 010	Issued	27/09/2019
50173415 011	Issued	10/10/2019
50173415 012	Issued	03/12/2019
50173415 014	Issued	31/12/2019
50173415 016	Issued	17/01/2020
50173415 017	Issued	14/02/2020
50173415 018	Issued	08/04/2020
50173415 021	Issued	06/05/2020
50173415 022	Issued	04/06/2020
50173415 023	Issued	11/06/2020
50173415 024	Issued	30/06/2020
50173415 025	Issued	13/07/2020
50173415 026	Issued	19/08/2020
50173415 029	Issued	11/09/2020
50173415 032	Issued	02/12/2020
50173415 034	Issued	29/12/2020
50173415 036	Issued	09/02/2021
50173415 037	Issued	16/03/2021
50173415 040	Issued	26/04/2021
50173415 043	Issued	22/06/2021
50173415 044	Issued	19/07/2021
50173415 046	Issued	09/09/2021
50173415 048	Issued	16/10/2021
50173415 049	Issued	11/11/2021
50173415 051	Issued	03/12/2021
50173415 053	Issued	23/12/2021
50173415 054	Issued	30/12/2021
50173415 056	Issued	30/01/2022
50289003 001	Issued	26/08/2019
50289003 002	Issued	04/10/2019
50289003 003	Issued	12/12/2019
50289003 005	Issued	12/03/2020
50289003 007	Issued	10/04/2020
50289003 008	Issued	24/06/2020
50289003 009	Issued	18/08/2020
50289003 011	Issued	11/09/2020
50289003 012	Issued	21/09/2020
50289003 014	Issued	03/11/2020
50289003 015	Issued	30/12/2020
50289003 017	Issued	09/02/2021
50289003 019	Issued	28/05/2021

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50289003 021	Issued	05/07/2021
50289003 023	Issued	23/08/2021
50289003 024	Issued	08/10/2021
50289003 026	Issued	03/11/2021
50289003 027	Issued	15/11/2021
50289003 030	Issued	23/12/2021
704062217001-00	Issued	23/02/2022
704062217001-01	Issued	10/03/2022
704062217001-02	Issued	31/03/2022
704062217001-03	Issued	28/07/2022
704062217001-04	Issued	31/08/2022
704062217001-05	Issued	20/10/2022
704062217001-06	Issued	10/11/2022
704062217001-07	Issued	20/12/2022
704062217001-08	Issued	30/01/2023
704062217001-09	Issued	27/02/2023
704062217001-10	Issued	01/07/2023
704062217001-11	Issued	31/08/2023
704062217001-12	Issued	20/09/2023
704062217001-13	Issued	24/10/2023
704062217002-00	Issued	23/02/2022
704062217002-01	Issued	10/03/2022
704062217002-02	Issued	31/03/2022
704062217002-03	Issued	17/06/2022
704062217002-04	Issued	31/08/2022
704062217002-05	Issued	20/10/2022
704062217002-06	Issued	10/11/2022
704062217002-07	Issued	01/12/2022
704062217002-08	Issued	30/01/2023
704062217002-09	Issued	27/02/2023
704062217002-10	Issued	25/05/2023
704062217002-11	Issued	27/07/2023
704062217002-12	Issued	31/08/2023
704062217002-13	Issued	20/09/2023
704062217002-14	Issued	24/10/2023

## 4 Products Within Scope of Certification

### 4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	JKMxxxN-60HL4-B-V	425 - 445	BABT8801-101
Monocrystalline	JKMxxxN-60HL4-V	405 - 510	BABT8801-102
Monocrystalline	JKMxxxN-60HL4-B	425 - 470	BABT8801-103
Monocrystalline	JKMxxxN-60HL4	405 - 510	BABT8801-104
Monocrystalline	JKMxxxM-60HL4-B-V	440 - 445	BABT8801-105
Monocrystalline	JKMxxxM-60HL4-V	400 - 485	BABT8801-106
Monocrystalline	JKMxxxM-60HL4-B	440 - 445	BABT8801-107
Monocrystalline	JKMxxxM-60HL4	455 - 470	BABT8801-108
Monocrystalline	JKMxxxM-60HL4-TV	400 - 455	BABT8801-109
Monocrystalline	JKMxxxM-60HL4	400 - 470	BABT8801-110
Monocrystalline	JKMxxxM-60HL4-BDVP	420 - 445	BABT8801-111

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



Product Type	Product Name <small>Note 1</small>	Power Range (W) <small>Note 2</small>	Certification Number
Monocrystalline	MMxxx-60HLD-MB	430 - 460	BABT8801-112
Monocrystalline	MMxxx-60HLD-MBV	430 - 460	BABT8801-113
Monocrystalline	JKMxxxN-54HL4-V	365 - 455	BABT8801-114
Monocrystalline	JKMxxxN-54HL4	365 - 455	BABT8801-115
Monocrystalline	JKMxxxN-54HL4-B-V	380 - 400	BABT8801-116
Monocrystalline	JKMxxxN-54HL4-B	380 - 450	BABT8801-117
Monocrystalline	JKMxxxM-54HL4-B-V	380 - 400	BABT8801-118
Monocrystalline	JKMxxxM-54HL4-V	360 - 430	BABT8801-119
Monocrystalline	JKMxxxM-54HL4-B	380 - 405	BABT8801-120
Monocrystalline	JKMxxxM-54HL4	360 - 420	BABT8801-121
Monocrystalline	MNxxx-54HLD-BBV	360 - 405	BABT8801-122
Monocrystalline	MNxxx-54HLD-MBV	365 - 415	BABT8801-123
Monocrystalline	MNxxx-54HLD-MB	365 - 415	BABT8801-124
Monocrystalline	MMxxx-54HLD-MBV	360 - 420	BABT8801-125
Monocrystalline	MMxxx-54HLD-MB	360 - 420	BABT8801-126
Monocrystalline	JKMxxxN-6TL3-B	320 - 385	BABT8801-127
Monocrystalline	JKMxxxN-6TL3	335 - 380	BABT8801-128
Monocrystalline	JKMxxxN-6TL3-V	335 - 390	BABT8801-129
Monocrystalline	JKMxxxN-6TL3-B-V	320 - 365	BABT8801-130
Monocrystalline	JKMxxxN-6RL3-V	360 - 420	BABT8801-131
Monocrystalline	JKMxxxN-6RL3-B-V	360 - 405	BABT8801-132
Monocrystalline	JKMxxxN-6RL3	360 - 420	BABT8801-133
Monocrystalline	JKMxxxN-6RL3-B	360 - 425	BABT8801-134
Monocrystalline	JKMxxxM-6TL3-B-V	345 - 365	BABT8801-135
Monocrystalline	JKMxxxM-6TL3-V	345 - 380	BABT8801-136
Monocrystalline	JKMxxxM-6TL3	345 - 380	BABT8801-137
Monocrystalline	JKMxxxM-6TL3-B	320 - 365	BABT8801-138
Monocrystalline	JKMxxxM-6RL3-B-V	360 - 405	BABT8801-139
Monocrystalline	JKMxxxM-6RL3-V	360 - 415	BABT8801-140
Monocrystalline	JKMxxxM-6RL3	360 - 415	BABT8801-141
Monocrystalline	JKMxxxM-6RL3-B	360 - 405	BABT8801-142
Monocrystalline	JKMxxxM-7RL3-TV	420 - 475	BABT8801-143
Monocrystalline	JKMxxxM-6RL3-TV	355 - 400	BABT8801-144
Monocrystalline	JKMxxxM-7RL3-V	430 - 495	BABT8801-145
Monocrystalline	JKMxxxM-60HLM	350 - 385	BABT8801-146
Monocrystalline	JKMxxxM-60HLM-V	350 - 385	BABT8801-147
Monocrystalline	JKMxxxM-60HLM-B	350 - 370	BABT8801-148

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



Product Type	Product Name <small>Note 1</small>	Power Range (W) <small>Note 2</small>	Certification Number
Monocrystalline	JKMxxxM-60H-MBB-TV	320 - 335	BABT8801-149
Monocrystalline	JKMxxxN-60H-MBB-TV	330 - 350	BABT8801-150
Monocrystalline	JKMxxxM-60H-TV	315 - 355	BABT8801-151
Monocrystalline	JKMSxxxM-60HB-V-MX3	270 - 340	BABT8801-152
Monocrystalline	JKMSxxxM-60H-V-MX3	270 - 340	BABT8801-153
Monocrystalline	JKMxxxN-60H-MBB-B-V	315 - 330	BABT8801-154
Monocrystalline	JKMxxxN-60H-MBB-V	320 - 350	BABT8801-155
Monocrystalline	JKMxxxM-60H-MBB-V	320 - 345	BABT8801-156
Monocrystalline	JKMxxxM-60HB-V	270 - 350	BABT8801-157
Monocrystalline	JKMxxxM-60H-V	270 - 350	BABT8801-158
Monocrystalline	JKMxxxM-66H-MBB	370 - 380	BABT8801-159
Monocrystalline	JKMxxxN-60H-MBB	320 - 350	BABT8801-160
Monocrystalline	JKMxxxM-60H-MBB	320 - 345	BABT8801-161
Monocrystalline	JKMSxxxM-60HB-MX3	270 - 340	BABT8801-162
Monocrystalline	JKMSxxxM-60H-MX3	270 - 340	BABT8801-163
Monocrystalline	JKMxxxM-60HB	270 - 350	BABT8801-164
Monocrystalline	JKMxxxM-60H	270 - 350	BABT8801-165
Monocrystalline	JKMxxxN-60H-MBB-B	315 - 330	BABT8801-166
Monocrystalline	JKMxxxM-78H-TV	405 - 455	BABT8801-167
Monocrystalline	JKMxxxM-66H-TV	340 - 385	BABT8801-168
Monocrystalline	JKMxxxM-78H-V	405 - 445	BABT8801-169
Monocrystalline	JKMxxxM-66H-V	340 - 375	BABT8801-170
Monocrystalline	JKMxxxM-72H-TV	380 - 415	BABT8801-171
Monocrystalline	JKMxxxM-72H-BDVP	390 - 410	BABT8801-172
Monocrystalline	JKMxxxM-72H-V	335 - 415	BABT8801-173
Monocrystalline	JKMxxxM-72H	335 - 420	BABT8801-174
Monocrystalline	JKMxxxM-60HL	275 - 335	BABT8801-175
Monocrystalline	JKMxxxM-72HB	335 - 385	BABT8801-176
Polycrystalline	JKMxxxPP-72H	330 - 350	BABT8801-177
Polycrystalline	JKMxxxPP-60HB-V	260 - 315	BABT8801-178
Polycrystalline	JKMxxxPP-60H-V	260 - 315	BABT8801-179
Polycrystalline	JKMxxxPP-60HB	275 - 315	BABT8801-180
Polycrystalline	JKMxxxPP-60H	275 - 315	BABT8801-181
Polycrystalline	JKMxxxPP-72H-V	330 - 350	BABT8801-182
Polycrystalline	JKMxxxPP-72HB	330 - 350	BABT8801-183
Monocrystalline	JKMxxxM-60B	270 - 335	BABT8801-184
Monocrystalline	JKMxxxM-60-V	270 - 340	BABT8801-185



# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	JKMxxxM-60	270 - 340	BABT8801-186
Monocrystalline	JKMSxxxM-60B-MX3	270 - 340	BABT8801-187
Monocrystalline	JKMSxxxM-60-MX3	270 - 340	BABT8801-188
Monocrystalline	JKMxxxM-72-V	335 - 410	BABT8801-189
Monocrystalline	JKMxxxM-72	335 - 410	BABT8801-190
Monocrystalline	JKMxxxM-72B	335 - 385	BABT8801-191
Polycrystalline	JKMxxxPP-60B	260 - 290	BABT8801-192
Polycrystalline	JKMxxxPP-60	260 - 290	BABT8801-193
Polycrystalline	JKMxxxPP-72-V	320 - 350	BABT8801-194
Polycrystalline	JKMxxxPP-72B	320 - 350	BABT8801-195
Polycrystalline	JKMxxxPP-72	320 - 350	BABT8801-196
Polycrystalline	JKMxxxPP-60-V	260 - 290	BABT8801-197
Monocrystalline	JKMxxxN-72HL4	485 - 615	BABT8801-198
Monocrystalline	JKMxxxN-72HL4-V	485 - 615	BABT8801-199
Monocrystalline	JKMxxxN-72HL4-BDV	480 - 610	BABT8801-200
Monocrystalline	JKMxxxN-54HL4R-V	365 - 455	BABT8801-201
Monocrystalline	JKMxxxN-54HL4R	365 - 455	BABT8801-202
Monocrystalline	JKMxxxN-54HL4R-B	380 - 450	BABT8801-203
Monocrystalline	JKMxxxN-54HL4R-BDV	360 - 455	BABT8801-204
Monocrystalline	JKMxxxN-60HL4R-V	405 - 500	BABT8801-205
Monocrystalline	JKMxxxN-60HL4R	405 - 500	BABT8801-206
Monocrystalline	JKMxxxN-72HL4R-V	485 - 615	BABT8801-207
Monocrystalline	JKMxxxN-72HL4R-BDV	480 - 610	BABT8801-208
Monocrystalline	JKMxxxN-78HL4-V	570 - 650	BABT8801-209
Monocrystalline	JKMxxxN-78HL4-BDV	570 - 645	BABT8801-210
Monocrystalline	JKMxxxM-72HL4-V	475 - 585	BABT8801-211
Monocrystalline	JKMxxxM-72HL4-BDVP	500 - 575	BABT8801-212
Monocrystalline	JKMxxxN-78HL4	570 - 650	BABT8801-213
Monocrystalline	JKMxxxN-66HL4M-V	600 - 620	BABT8801-214
Monocrystalline	JKMxxxN-66HL4M	600 - 620	BABT8801-215

Note 1: where xxx = rated output power in W @ STC

Note 2: in steps of 5 W

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme

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## 5 Additional Information

All products within the scope of this certification shall be listed on the MCS Installations Database for the duration of this certificates validity. The database shall contain an entry for each individual power rating for the certified product, where the power rating shall be suffixed to the certificate number as listed on this certificate.

## 6 Conditions of Validity

This certificate authorizes the manufacturer or their authorized representative to apply the MCS Approved Product Mark to the range of products listed within this certification in accordance with the MCS Manufacturers / Distributors agreement dated **21st March 2022**.

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment or the approved quality system, which have not been notified to, and agreed with TUV SUD BABT UNLIMITED or a person appointed by TUV SUD BABT UNLIMITED to perform that role.

The manufacturer must immediately cease affixing the MCS Approved Product Mark on any product subject to expiry, withdrawal or suspension of this certification.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_ 2023-12-06

Print Name: Stephen Milliken

On behalf of TUV SUD BABT UNLIMITED



China

# Attestation of Conformity

No. N8AUK 118443 0006 Rev. 06

**Holder of Attestation:** **Jinko Solar Co., Ltd.**

No.1, Yingbin Road, Economic Development Zone  
334100 Shangrao City, Jiangxi  
PEOPLE'S REPUBLIC OF CHINA

**Product:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**

**Crystalline Silicon Photovoltaic Module**

This Attestation of Conformity is issued on a voluntary basis according to the Electrical Equipment (Safety) Regulations 2016 relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the regulation and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment.

For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

704062217003-07

**Date,**

2024-02-27

( Xinlian LUO )

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This Attestation does not replace the regulatory UK Declaration of Conformity (DoC) and does not allow for UKCA marking. After preparation of the necessary technical documentation and establishing compliance to requirements of all applicable regulations, the manufacturer may sign a DoC and apply the UKCA marking. The DoC is issued under the sole responsibility of the manufacturer.

**UK  
CA**



China

# Attestation of Conformity

No. N8AUK 118443 0006 Rev. 06

## Model(s):

1500VDC system voltage:  
 JKxxxM-66R5-BGV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66H5-BGV (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxN-78HL4-BDV, JKMxxxN-78HL4-BDV-J, JKMxxxN-78HL4R-BDV  
 (xxx=570-645, in steps of 5, 156 cells)  
 JKMxxxN-72HL4-BDV, JKMxxxN-72HL4-BDV-J,  
 JKMxxxN-72HL4-BDV-U, JKMxxxN-72HL4R-BDV  
 (xxx=480-610, in steps of 5, 144 cells)  
 JKMxxxN-66HL4-BDV (xxx=440-520, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-60HL4R-BDV (xxx=400-505, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDV (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-BDB (xxx=360-455, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-BDV, JKMxxxN-7RL4-BDV-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-BDV, JKMxxxN-7TL4-BDV-J, JKMxxxN-7TL4R-BDV  
 (xxx=495-590, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-BDV (xxx=455-500, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-BDV (xxx=415-455, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-BDV (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72H-DV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-DV (xxx=325-345, in steps of 5, 120 cells)  
 JKMxxxM-7RL4-BDVP, JKMxxxM-7RL4-BDVP-J  
 (xxx=535-595, in steps of 5, 156 cells)  
 JKMxxxM-72HL4-BDVP, JKMxxxM-72HL4-BDVP-J  
 (xxx=500-575, in steps of 5, 144 cells)  
 JKMxxxM-66HL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-7TL4-BDVP, JKMxxxM-7TL4-BDVP-J  
 (xxx=500-565, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-BDVP (xxx=460-500, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-BDVP (xxx=420-455, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-BDVP (xxx=375-410, in steps of 5, 108 cells)  
 JKMxxxM-72HL-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDV (xxx=390-410, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDV (xxx=325-340, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-BDV (xxx=390-415, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-BDV (xxx=330-345, in steps of 5, 120 cells)  
 JKMxxxM-72HL-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-72H-BDVP (xxx=375-430, in steps of 5, 144 cells)  
 JKMxxxM-60HL-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-60H-BDVP (xxx=310-355, in steps of 5, 120 cells)  
 JKMxxxM-72H-MBB-BDVP (xxx=380-415, in steps of 5, 144 cells)  
 JKMxxxM-60H-MBB-BDVP (xxx=315-345, in steps of 5, 120 cells)  
 JKSN3-DDCA-xxx (xxx=405-435, in steps of 5, 156 cells)  
 JKSN3-CDCA-xxx (xxx=345-365, in steps of 5, 132 cells)  
 JKSM3-DDCA-xxx (xxx=405-430, in steps of 5, 156 cells)  
 JKSM3-CDCA-xxx (xxx=345-360, in steps of 5, 132 cells)  
 JKMxxxN-78H-BDV (xxx=415-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-BDV (xxx=350-385, in steps of 5, 132 cells)

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JKMxxxN-7RL3-BDV (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-7RL3-BDV-J (xxx=440-490, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-BDV (xxx=375-410, in steps of 5, 132 cells)  
 JKMxxxM-78H-BDVP (xxx=415-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-BDVP (xxx=350-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-BDVP, JKMxxxM-7RL3- BDVP-J  
 (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-6RL3- BDVP, JKMxxxM-6RL3- BDVP-J  
 (xxx=375-390, in steps of 5, 132 cells)  
 JKMxxxM-78HL3-BDVP, JKMxxxM-78HL3-MBB-BDVP  
 (xxx=450-480, in steps of 5, 156 cells)  
 JKMxxxM-66HL3-BDVP, JKMxxxM-66HL3-MBB-BDVP  
 (xxx=380-405, in steps of 5, 132 cells)  
 JKMxxxM-72HLM-BDVP (xxx=415-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-BDVP (xxx=345-380, in steps of 5, 120 cells)  
 JKMxxxM-72L-BDV (xxx=375-405, in steps of 5, 72 cells)  
 JKMxxxM-72-BDV (xxx=375-405, in steps of 5, 72 cells)  
 JKMxxxM-60L-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-60-BDV (xxx=310-335, in steps of 5, 60 cells)  
 JKMxxxM-72L-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-72-BDVP (xxx=370-410, in steps of 5, 72 cells)  
 JKMxxxM-60L-BDVP (xxx=305-340, in steps of 5, 60 cells)  
 JKMxxxM-60-BDVP (xxx=305-340, in steps of 5, 60 cells)  
 JKMxxxM-72-DV (xxx=385-405, in steps of 5, 72 cells)  
 JKMxxxM-78HL4-BDVP (xxx=570-595, in steps of 5, 156 cells)  
 JKBSxxxN-48HL4-BDV (xxx=330-380, in steps of 5, 96 cells)  
 JKBSxxxN-22.5HL4-BDV (xxx=155-180, in steps of 5, 45 cells)  
 JKBSxxxM-48HL4-BDVP (xxx=335-375, in steps of 5, 96 cells)  
 JKBSxxxM-22.5HL4-BDVP (xxx=160-175, in steps of 5, 45 cells)  
 JKMxxxN-60HL4-MDV (xxx=450-505, in steps of 5, 120 cells)  
 JKMxxxN-60HL4R-MDV (xxx=450-505, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-MDV (xxx=405-450, in steps of 5, 108 cells)  
 JKMxxxN-54HL4R-MDV (xxx=405-450, in steps of 5, 108 cells)  
 JKxxxN-66H5-BGV (xxx=625-710, in steps of 5, 132 cells)  
 JKMxxxN-66HL5-BDV (xxx=625-710, in steps of 5, 132 cells)  
 JKMxxxM-60HL4-MDVP (xxx=450-465, in steps of 5, 120 cells)  
 JKMxxxM-54HL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
 JKMxxxM-5RL4-MDVP (xxx=405-415, in steps of 5, 108 cells)  
 JKMxxxN-5RL4-MDV (xxx=420-430, in steps of 5, 108 cells)  
 JKMxxxN-72HL4U-BDV(xxx=590-610, in steps of 5, 144cells)  
 JKMxxxN-66HL4M-BDV (xxx=590-620, in steps of 5, 132 cells)  
 JKBSxxxN-48HL4-BDVW, (xxx=370-395, in steps of 5, 96 cells)

## 1500VDC system voltage:

JKMxxxM-78H-TV, (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV, (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxM-72-V, JKMxxxM-72B-V, JKMxxxM-72(Plus)-V,  
 JKMxxxM-72L-V, JKMxxxM-72BL-V, JKMSxxxM-72-V,  
 JKMSxxxM-72-V-J, JKMSxxxM-72-V-TI, JKMSxxxM-72L-V-TI,  
 JKMSxxxM-72B-V-TI, JKMSxxxM-72BL-V-TI (xxx=335-410,  
 in steps of 5, 72 cells)  
 JKMxxxM-60-V, JKMxxxM-60B-V, JKMxxxM-60(Plus)-V,

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JKMxxxM-60L-V, JKMxxxM-60BL-V, JKMSxxxM-60-V,  
JKMSxxxM-60-V-J, JKMSxxxM-60-V-TI, JKMSxxxM-60L-V-TI,  
JKMSxxxM-60B-V-TI, JKMSxxxM-60BL-V-TI  
(xxx=270-340, in steps of 5, 60 cells)  
JKMxxxM-72H-V, JKMxxxM-72HL-V, JKMxxxM-72HB-V,  
JKMxxxM-72HBL-V, JKMSxxxM-72H-V-TI, JKMSxxxM-72HL-V-TI,  
JKMSxxxM-72HB-V-TI, JKMSxxxM-72HBL-V-TI  
(xxx=335-425, in steps of 5, 144 cells)  
JKMxxxM-60H-V, JKMxxxM-60HL-V, JKMxxxM-60HB-V,  
JKMxxxM-60HBL-V, JKMSxxxM-60H-V-TI, JKMSxxxM-60HL-V-TI,  
JKMSxxxM-60HB-V-TI, JKMSxxxM-60HBL-V-TI  
(xxx=270-350, in steps of 5, 120 cells)  
MMxxx-72LA-MBV, MMxxx-72LA-ABV, SMMxxx-72LA-MBV,  
SMMxxx-72LA-MBV-TI, SMMxxx-72LA-ABV-TI  
(xxx=335-410, in steps of 5, 72 cells)  
MMxxx-60LA-MBV, MMxxx-60LA-ABV, SMMxxx-60LA-MBV-TI,  
SMMxxx-60LA-ABV-TI (xxx=270-340, in steps of 5, 60 cells)  
JKMxxxM-72HL-V-Q, JKMSxxxM-72HL-V-TI-Q, MMxxx-72HLA-MBV,  
MMxxx-72HLA-ABV, SMMxxx-72HLA-MBV-TI, SMMxxx-72HLA-ABV-TI  
(xxx=335-425, in steps of 5, 144 cells)  
JKMxxxM-60HL-V-Q, JKMSxxxM-60HL-V-TI-Q, MMxxx-60HLA-MBV,  
MMxxx-60HLA-ABV, SMMxxx-60HLA-MBV-TI, SMMxxx-60HLA-ABV-TI  
(xxx=270-350, in steps of 5, 120 cells)  
JKMxxxPP-72-V, JKMxxxPP-72B-V, JKMxxxPP-72(Plus)-V,  
JKMSxxxPP-72-V, JKMSxxxPP-72-V-J  
(xxx=320-355, in steps of 5, 72 cells)  
JKMxxxPP-60-V, JKMxxxPP-60B-V, JKMxxxPP-60(Plus)-V,  
JKMSxxxPP-60-V, JKMSxxxPP-60-V-J  
(xxx=260-290, in steps of 5, 60 cells)  
JKMxxxPP-72H-V, JKMxxxPP-72HB-V  
(xxx=330-380, in steps of 5, 144 cells)  
JKMxxxPP-60H-V, JKMxxxPP-60HB-V  
(xxx=260-315, in steps of 5, 120 cells)  
JKMxxxM-72H-TV, JKMxxxM-72HL-TV  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxM-60H-TV, JKMxxxM-60HL-TV  
(xxx=315-355, in steps of 5, 120 cells)  
JKMxxxM-72HL-TV-Q, MMxxx-72HLA-BBV  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxM-60HL-TV-Q, MMxxx-60HLA-BBV  
(xxx=315-355, in steps of 5, 120 cells)  
JKMxxxN-72H-TV, JKMxxxN-72HL-TV  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxN-60H-TV, JKMxxxN-60HL-TV  
(xxx=315-355, in steps of 5, 120 cells)  
JKMSxxxM-72-V-MX3, JKMSxxxM-72B-V-MX3, JKMSxxxM-72L-V-  
MX3, JKMSxxxM-72BL-V-MX3 (xxx=335-395, in steps of 5, 72 cells)  
JKMSxxxM-60-V-MX3, JKMSxxxM-60B-V-MX3, JKMSxxxM-60L-V-  
MX3, JKMSxxxM-60BL-V-MX3 (xxx=270-340, in steps of 5, 60 cells)  
SMMxxx-72LA-MBV-MX3, SMMxxx-72LA-ABV-MX3  
(xxx=335-395, in steps of 5, 72 cells)  
SMMxxx-60LA-MBV-MX3, SMMxxx-60LA-ABV-MX3  
(xxx=270-340, in steps of 5, 60 cells)  
JKMSxxxM-72H-V-MX3, JKMSxxxM-72HB-V-MX3,  
JKMSxxxM-72HL-V-MX3, JKMSxxxM-72HBL-V-MX3

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(xxx=335-395, in steps of 5, 144cells)  
JKMSxxxM-60H-V-MX3, JKMSxxxM-60HB-V-MX3,  
JKMSxxxM-60HL-V-MX3, JKMSxxxM-60HBL-V-MX3  
(xxx=270-340, in steps of 5, 120 cells)  
JKMSxxxM-72HL-V-MX3-Q, SMMxxx-72HLA-MBV-MX3,  
SMMxxx-72HLA-ABV-MX3 (xxx=335-395, in steps of 5, 144cells)  
JKMSxxxM-60HL-V-MX3-Q, SMMxxx-60HLA-MBV-MX3,  
SMMxxx-60HLA-ABV-MX3 (xxx=270-340, in steps of 5, 120 cells)  
JKMSxxxPP-72-V-MX3, JKMSxxxPP-72B-V-MX3,  
JKMSxxxPP-72L-V-MX3, JKMSxxxPP-72BL-V-MX3  
(xxx=320-355, in steps of 5, 72 cells)  
JKMSxxxPP-60-V-MX3, JKMSxxxPP-60B-V-MX3,  
JKMSxxxPP-60L-V-MX3, JKMSxxxPP-60BL-V-MX3  
(xxx=260-290, in steps of 5, 60 cells)  
JKMSxxxPP-72H-V-MX3, JKMSxxxPP-72HB-V-MX3,  
JKMSxxxPP-72HL-V-MX3, JKMSxxxPP-72HBL-V-MX3  
(xxx=330-380, in steps of 5, 144cells)  
JKMSxxxPP-60H-V-MX3, JKMSxxxPP-60HB-V-MX3,  
JKMSxxxPP-60HL-V-MX3, JKMSxxxPP-60HBL-V-MX3  
(xxx=260-315, in steps of 5, 120 cells)  
JKMxxxN-72H-MBB-TV (xxx=390-420, in steps of 5, 144 cells)  
JKMxxxN-60H-MBB-TV (xxx=330-350, in steps of 5, 120 cells)  
MNxxx-72HLA-BBV-MBB (xxx=390-420, in steps of 5, 144 cells)  
MNxxx-60HLA-BBV-MBB (xxx=330-350, in steps of 5, 120 cells)  
JKMxxxM-72H-MBB-TV (xxx=385-405, in steps of 5, 144 cells)  
JKMxxxM-60H-MBB-TV (xxx=320-335, in steps of 5, 120 cells)  
MM-72HLA-BBV-MBB, MMxxx-72HLA-BBV-MBB  
(xxx=385-405, in steps of 5, 144 cells)  
MM-60HLA-BBV-MBB, MMxxx-60HLA-BBV-MBB  
(xxx=320-335, in steps of 5, 120 cells)  
JKMxxxM-72H-MBB-V, JKMSxxxM-72H-MBB-V-TI,  
JKMSxxxM-72H-MBB-V-MX3 (xxx=385-425, in steps of 5, 144 cells)  
JKMxxxM-60H-MBB-V, JKMSxxxM-60H-MBB-V-TI,  
JKMSxxxM-60H-MBB-V-MX3 (xxx=320-355, in steps of 5, 120 cells)  
MM-72HLA-MBV-MBB, SMMxxx-72HLA-MBV-MBB-TI,  
MMxxx-72HLA-MBV-MBB, SMMxxx-72HLA-MBV-MBB-TI  
(xxx=385-425, in steps of 5, 144 cells)  
MM-60HLA-MBV-MBB, SMMxxx-60HLA-MBV-MBB-TI,  
MMxxx-60HLA-MBV-MBB, SMMxxx-60HLA-MBV-MBB-TI  
(xxx=320-355, in steps of 5, 120 cells)  
JKSN3-DCCA-xxx (xxx=410-440, in steps of 5, 156 cells)  
JKSN3-CCCA-xxx (xxx=345-370, in steps of 5, 132 cells)  
JKSM3-DCCA-xxx (xxx=400-450, in steps of 5, 156 cells)  
JKSM3-CCCA-xxx (xxx=340-380, in steps of 5, 132 cells)  
JKSM3-DACA-xxx (xxx=400-440, in steps of 5, 156 cells)  
JKSM3-CACA-xxx (xxx=335-370, in steps of 5, 132 cells)  
JKMxxxM-78H-V, JKMSxxxM-78H-V-TI  
(xxx=405-465, in steps of 5, 156 cells)  
JKMxxxM-66H-V, JKMSxxxM-66H-V-TI  
(xxx=340-390, in steps of 5, 132 cells)  
JKMxxxM-78H-V-Q, JKMSxxxM-78H-V-TI-Q, MMxxx-78HLA-MBV,  
SMMxxx-78HLA-MBV-TI (xxx=405-465, in steps of 5, 156 cells)  
JKMxxxM-66H-V-Q, JKMSxxxM-66H-V-TI-Q, MMxxx-66HLA-MBV,  
SMMxxx-66HLA-MBV-TI (xxx=340-390, in steps of 5, 132 cells)  
JKMxxxM-78HB-V, JKMSxxxM-78HB-V-TI

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(xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB-V, JKMSxxxM-66HB-V-TI  
 (xxx=340-365, in steps of 5, 132 cells)  
 MMxxx-78HLA-ABV, SMMxxx-78HLA-ABV-TI  
 (xxx=405-435, in steps of 5, 156 cells)  
 MMxxx-66HLA-ABV, SMMxxx-66HLA-ABV-TI  
 (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-TV-Q, MMxxx-78HLA-BBV  
 (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-TV-Q, MMxxx-66HLA-BBV  
 (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-TV (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-TV (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3-V, JKMxxxM-7RL3-V-J, JKMSxxxM-7RL3-V-TI,  
 JKMxxxM-7RL3-S-V, JKMxxxM-7RL3-S-V-J  
 (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-V, JKMxxxM-6RL3-V-J, JKMSxxxM-6RL3-V-TI,  
 JKMxxxM-6RL3-S-V, JKMxxxM-6RL3-S-V-J, JKMSxxxM-6RL3-V-MX3  
 (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-V, JKMSxxxM-6TL3-V-TI, JKMxxxM-6TL3-S-V,  
 JKMSxxxM-6TL3-V-MX3 (xxx=335-380, in steps of 5, 120 cells)  
 MMxxx-7RLC-MBV, SMMxxx-7RLC-MBV-TI  
 (xxx=430-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-MBV, SMMxxx-6RLC-MBV-TI  
 (xxx=360-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-MBV, SMMxxx-6TLC-MBV-TI  
 (xxx=335-365, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-V, JKMxxxN-7RL3-V-J, JKMSxxxN-7RL3-V-TI  
 (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-V, JKMxxxN-6RL3-V-J, JKMSxxxN-6RL3-V-TI,  
 JKMSxxxN-6RL3-V-MX3 (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-V, JKMSxxxN-6TL3-V-TI, JKMSxxxN-6TL3-V-MX3  
 (xxx=335-390, in steps of 5, 120 cells)  
 MNxxx-7RLC-MBV, SMNxxx-7RLC-MBV-TI  
 (xxx=430-475, in steps of 5, 156 cells)  
 MNxxx-6RLC-MBV, SMNxxx-6RLC-MBV-TI  
 (xxx=360-400, in steps of 5, 132 cells)  
 MNxxx-6TLC-MBV, SMNxxx-6TLC-MBV-TI  
 (xxx=335-365, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-TV, JKMxxxM-7RL3-TV-J, JKMxxxM-7RL3-S-TV,  
 JKMxxxM-7RL3-S-TV-J (xxx=420-475, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-TV, JKMxxxM-6RL3-TV-J, JKMxxxM-6RL3-S-TV,  
 JKMxxxM-6RL3-S-TV-J (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-TV, JKMxxxM-6TL3-S-TV  
 (xxx=325-365, in steps of 5, 120 cells)  
 MMxxx-7RLC-BBV (xxx=420-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-TV, JKMxxxN-7RL3-TV-J, JKMxxxN-7RL3-S-TV,  
 JKMxxxN-7RL3-S-TV-J (xxx=425-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-TV, JKMxxxN-6RL3-TV-J, JKMxxxN-6RL3-S-TV,  
 JKMxxxN-6RL3-S-TV-J (xxx=355-420, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-TV, JKMxxxN-6TL3-S-TV  
 (xxx=325-380, in steps of 5, 120 cells)  
 MNxxx-7RLC-BBV (xxx=425-475, in steps of 5, 156 cells)

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MNxxx-6RLC-BBV (xxx=355-400, in steps of 5, 132 cells)  
 MNxxx-6TLC-BBV (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-V, JKMSxxxN-72H-MBB-V-TI  
 (xxx=385-425, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-V, JKMSxxxN-60H-MBB-V-TI  
 (xxx=320-350, in steps of 5, 120 cells)  
 MNxxx-72HLA-MBV-MBB, SMNxxx-72HLA-MBV-MBB-TI  
 (xxx=385-425, in steps of 5, 144 cells)  
 MNxxx-60HLA-MBV-MBB, SMNxxx-60HLA-MBV-MBB-TI  
 (xxx=320-350, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-B-V, JKMxxxM-7RL3-S-B-V, JKMSxxxM-7RL3-B-V-TI  
 (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-B-V, JKMxxxM-6RL3-S-B-V, JKMSxxxM-6RL3-B-V-TI  
 (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-B-V, JKMxxxM-6TL3-S-B-V, JKMSxxxM-6TL3-B-V-TI  
 (xxx=320-365, in steps of 5, 120 cells)  
 MMxxx-7RLC-ABV, SMMxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
 MMxxx-6RLC-ABV, SMMxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
 MMxxx-6TLC-ABV, SMMxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-B-V, JKMSxxxN-7RL3-B-V-TI, JKMxxxN-7RL3-S-B-V  
 (xxx=425-480, in steps of 5, 156 cells)  
 JKMxxxN-6RL3-B-V, JKMSxxxN-6RL3-B-V-TI, JKMxxxN-6RL3-S-B-V  
 (xxx=360-405, in steps of 5, 132 cells)  
 JKMxxxN-6TL3-B-V, JKMSxxxN-6TL3-B-V-TI, JKMxxxN-6TL3-S-B-V  
 (xxx=320-365, in steps of 5, 120 cells)  
 MNxxx-7RLC-ABV, SMNxxx-7RLC-ABV-TI (xxx=425-480, in steps of 5, 156 cells)  
 MNxxx-6RLC-ABV, SMNxxx-6RLC-ABV-TI (xxx=360-405, in steps of 5, 132 cells)  
 MNxxx-6TLC-ABV, SMNxxx-6TLC-ABV-TI (xxx=320-365, in steps of 5, 120 cells)  
 JKMxxxN-72H-MBB-B-V, JKMSxxxN-72H-MBB-B-V-TI (xxx=380-400, in steps of 5, 144 cells)  
 JKMxxxN-60H-MBB-B-V, JKMSxxxN-60H-MBB-B-V-TI (xxx=315-330, in steps of 5, 120 cells)  
 MNxxx-72HLA-ABV-MBB, SMNxxx-72HLA-ABV-MBB-TI (xxx=380-400, in steps of 5, 144 cells)  
 MNxxx-60HLA-ABV-MBB, SMNxxx-60HLA-ABV-MBB-TI (xxx=315-330, in steps of 5, 120 cells)  
 JKMxxxM-72HLM-V, JKMSxxxM-72HLM-V-MX3 (xxx=420-465, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-V, JKMSxxxM-60HLM-V-MX3 (xxx=350-385, in steps of 5, 120 cells)  
 MMxxx-72HLM-MBV (xxx=420-465, in steps of 5, 144 cells)  
 MMxxx-60HLM-MBV (xxx=350-385, in steps of 5, 120 cells)  
 JKMxxxM-78H-MBB-V, JKMSxxxM-78H-MBB-V-MX3 (xxx=440-465, in steps of 5, 156 cells)  
 JKMxxxM-66H-MBB-V, JKMSxxxM-66H-MBB-V-MX3 (xxx=370-390, in steps of 5, 132 cells)  
 MM-78HLA-MBV-MBB, MMxxx-78HLA-MBV-MBB (xxx=440-465, in steps of 5, 156 cells)  
 MM-66HLA-MBV-MBB, MMxxx-66HLA-MBV-MBB (xxx=370-390, in steps of 5, 132 cells)

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steps of 5, 132 cells)

JKMxxxM-78HL4-V, JKMxxxM-78HL4-S-V (xxx=565-605, in steps of 5, 156 cells)

JKMxxxM-72HL4-V, JKMxxxM-72HL4-V-J, JKMxxxM-72HL4-S-V,

JKMxxxM-72HL4-S-V-J (xxx=475-585, in steps of 5, 144 cells)

JKMxxxM-66HL4-V, JKMxxxM-66HL4-S-V (xxx=440-505, in steps of 5, 132 cells)

JKMxxxM-60HL4-V, JKMxxxM-60HL4-S-V (xxx=400-485, in steps of 5, 120 cells)

JKMxxxM-54HL4-V, JKMxxxM-54HL4-S-V (xxx=360-430, in steps of 5, 108 cells)

MMxxx-78HLD-MBV (xxx=565-605, in steps of 5, 156 cells)

MMxxx-72HLD-MBV (xxx=475-570, in steps of 5, 144 cells)

MMxxx-66HLD-MBV (xxx=440-505, in steps of 5, 132 cells)

MMxxx-60HLD-MBV (xxx=400-470, in steps of 5, 120 cells)

MMxxx-54HLD-MBV (xxx=360-420, in steps of 5, 108 cells)

JKMxxxM-78HL4-TV, JKMxxxM-78HL4-S-TV

(xxx=555-595, in steps of 5, 156 cells)

JKMxxxM-72HL4-TV, JKMxxxM-72HL4-TV-J, JKMxxxM-72HL4-S-TV,

JKMxxxM-72HL4-S-TV-J (xxx=475-580, in steps of 5, 144 cells)

JKMxxxM-66HL4-TV, JKMxxxM-66HL4-S-TV

(xxx=440-500, in steps of 5, 132 cells)

JKMxxxM-60HL4-TV, JKMxxxM-60HL4-S-TV

(xxx=400-455, in steps of 5, 120 cells)

JKMxxxM-54HL4-TV, JKMxxxM-54HL4-S-TV

(xxx=360-410, in steps of 5, 108 cells)

JKMxxxM-7RL4-V, JKMxxxM-7RL4-V-J

(xxx=535-590, in steps of 5, 156 cells)

JKMxxxM-7TL4-V, JKMxxxM-7TL4-V-J

(xxx=495-570, in steps of 5, 144 cells)

JKMxxxM-6RL4-V (xxx=455-495, in steps of 5, 132 cells)

JKMxxxM-6TL4-V (xxx=415-450, in steps of 5, 120 cells)

JKMxxxM-5RL4-V (xxx=375-435, in steps of 5, 108 cells)

MMxxx-7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)

MMxxx-7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)

MMxxx-6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)

MMxxx-6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)

MMxxx-5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)

JKMxxxM-7RL4-TV, JKMxxxM-7RL4-TV-J

(xxx=525-590, in steps of 5, 156 cells)

JKMxxxM-7TL4-TV, JKMxxxM-7TL4-TV-J

(xxx=485-570, in steps of 5, 144 cells)

JKMxxxM-6RL4-TV (xxx=445-495, in steps of 5, 132 cells)

JKMxxxM-6TL4-TV (xxx=405-450, in steps of 5, 120 cells)

JKMxxxM-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)

JKMxxxN-78HL4-V, JKMxxxN-78HL4-V-J, JKMxxxN-78HL4R-V

(xxx=570-650, in steps of 5, 156 cells)

JKMxxxN-72HL4-V (xxx=485-615, in steps of 5, 144 cells)

JKMxxxN-72HL4-V-J (xxx=485-615, in steps of 5, 144 cells)

JKMxxxN-72HL4R-V (xxx=485-615, in steps of 5, 144 cells)

JKMxxxN-66HL4-V (xxx=445-525, in steps of 5, 132 cells)

JKMxxxN-60HL4-V (xxx=405-510, in steps of 5, 120 cells)

JKMxxxN-60HL4-V-J (xxx=405-510, in steps of 5, 120 cells)

JKMxxxN-60HL4R-V (xxx=405-510, in steps of 5, 120 cells)

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JKMxxxN-54HL4-V, JKMxxxN-54HL4R-V  
(xxx=365-455, in steps of 5, 108 cells)  
MNxxx-72HLD-MBV (xxx=485-555, in steps of 5, 144 cells)  
MNxxx-66HLD-MBV (xxx=445-505, in steps of 5, 132 cells)  
MNxxx-60HLD-MBV (xxx=405-460, in steps of 5, 120 cells)  
MNxxx-54HLD-MBV (xxx=365-415, in steps of 5, 108 cells)  
JKMxxxN-78HL4-TV, JKMxxxN-78HL4R-TV  
(xxx=570-645, in steps of 5, 156 cells)  
JKMxxxN-72HL4-TV (xxx=480-605, in steps of 5, 144 cells)  
JKMxxxN-72HL4R-TV (xxx=480-605, in steps of 5, 144 cells)  
JKMxxxN-66HL4-TV (xxx=440-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4-TV (xxx=400-480, in steps of 5, 120 cells)  
JKMxxxN-54HL4-TV, (xxx=360-430, in steps of 5, 108 cells)  
MNxxx72HLD-BBV (xxx=480-545, in steps of 5, 144 cells)  
MNxxx66HLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
MNxxx60HLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
MNxxx54HLD-BBV (xxx=360-405, in steps of 5, 108 cells)  
JKMxxxN-7RL4-V (xxx=535-590, in steps of 5, 156 cells)  
JKMxxxN-7TL4-V (xxx=495-600, in steps of 5, 144 cells)  
JKMxxxN-7TL4R-V (xxx=495-600, in steps of 5, 144 cells)  
JKMxxxN-6RL4-V (xxx=455-495, in steps of 5, 132 cells)  
JKMxxxN-6TL4-V (xxx=415-450, in steps of 5, 120 cells)  
JKMxxxN-5RL4-V (xxx=375-460, in steps of 5, 108 cells)  
MNxxx7RLD-MBV (xxx=535-590, in steps of 5, 156 cells)  
MNxxx7TLD-MBV (xxx=495-540, in steps of 5, 144 cells)  
MNxxx6RLD-MBV (xxx=455-495, in steps of 5, 132 cells)  
MNxxx6TLD-MBV (xxx=415-450, in steps of 5, 120 cells)  
MNxxx5RLD-MBV (xxx=375-405, in steps of 5, 108 cells)  
JKMxxxN-7RL4-TV (xxx=520-585, in steps of 5, 156 cells)  
JKMxxxN-7TL4-TV (xxx=480-590, in steps of 5, 144 cells)  
JKMxxxN-7TL4R-TV (xxx=480-590, in steps of 5, 144 cells)  
JKMxxxN-6RL4-TV (xxx=440-495, in steps of 5, 132 cells)  
JKMxxxN-6TL4-TV (xxx=400-450, in steps of 5, 120 cells)  
JKMxxxN-5RL4-TV (xxx=365-405, in steps of 5, 108 cells)  
MNxxx7RLD-BBV (xxx=520-585, in steps of 5, 156 cells)  
MNxxx7TLD-BBV (xxx=480-540, in steps of 5, 144 cells)  
MNxxx6RLD-BBV (xxx=440-495, in steps of 5, 132 cells)  
MNxxx6TLD-BBV (xxx=400-450, in steps of 5, 120 cells)  
MNxxx5RLD-BBV (xxx=365-405, in steps of 5, 108 cells)  
JKMxxxM-72HL4-B-V, JKMxxxM-72HL4-S-B-V  
(xxx=510-535, in steps of 5, 144 cells)  
JKMxxxM-66HL4-B-V, JKMxxxM-66HL4-S-B-V  
(xxx=465-490, in steps of 5, 132 cells)  
JKMxxxM-60HL4-B-V, JKMxxxM-60HL4-S-B-V  
(xxx=425-445, in steps of 5, 120 cells)  
JKMxxxM-54HL4-B-V, JKMxxxM-54HL4-S-B-V  
(xxx=380-400, in steps of 5, 108 cells)  
JKMxxxN-72HL4-B-V (xxx=510-535, in steps of 5, 144 cells)  
JKMxxxN-66HL4-B-V (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxN-60HL4-B-V (xxx=425-445, in steps of 5, 120 cells)  
JKMxxxN-54HL4-B-V (xxx=380-400, in steps of 5, 108 cells)  
JKMxxxM-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
JKMxxxM-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
JKMxxxM-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)

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JKMxxxM-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B-V (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B-V (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-B-V (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B-V (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B-V (xxx=375-395, in steps of 5, 108 cells)  
 JKMxxxM-72HLM-TV (xxx=425-460, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-TV (xxx=355-380, in steps of 5, 120 cells)  
 JKMxxxM-72HLM-B-V, JKMSxxxM-72HLM-B-V-MX3  
 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B-V, JKMSxxxM-60HLM-B-V-MX3  
 (xxx=350-370, in steps of 5, 120 cells)  
 JKxxxM-66R5-MWV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66R5-BTV (xxx=630-660, in steps of 5, 132 cells)  
 JKxxxM-66H5-MWV (xxx=635-670, in steps of 5, 132 cells)  
 JKxxxM-66H5-BTV (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxN-66H5-BTV (xxx=625-700, in steps of 5, 132 cells)  
 JKxxxN-66H5-MWV (xxx=630-695, in steps of 5, 132 cells)  
 JKMxxxN-66HL4M-V (xxx=600-620, in steps of 5, 132 cells)  
 JKBWxxxN-72HL4-V (xxx=485-615, in steps of 5, 144 cells)

## 1000VDC system voltage:

JKMxxxM-72, JKMxxxM-72(Plus), JKMxxxM-72L, JKMxxxM-72B,  
 JKMxxxM-72BL, JKMSxxxM-72, JKMSxxxM-72-J, JKMSxxxM-72-TI,  
 JKMSxxxM-72L-TI, JKMSxxxM-72B-TI, JKMSxxxM-72BL-TI  
 (xxx=335-410, in steps of 5, 72 cells)  
 JKMxxxM-60, JKMxxxM-60(Plus), JKMxxxM-60L, JKMxxxM-60B,  
 JKMxxxM-60BL, JKMSxxxM-60, JKMSxxxM-60-J, JKMSxxxM-60-TI,  
 JKMSxxxM-60L-TI, JKMSxxxM-60B-TI, JKMSxxxM-60BL-TI  
 (xxx=270-340, in steps of 5, 60 cells)  
 MMxxx-72LA-MB, MMxxx-72LA-AB, SMMxxx-72LA-MB,  
 SMMxxx-72LA-MB-TI, SMMxxx-72LA-AB-TI  
 (xxx=335-410, in steps of 5, 72 cells)  
 MMxxx-60LA-MB, MMxxx-60LA-AB, SMMxxx-60LA-MB-TI,  
 SMMxxx-60LA-AB-TI (xxx=270-340, in steps of 5, 60 cells)  
 JKMxxxM-72H, JKMxxxM-72HL, JKMxxxM-72HB, JKMxxxM-72HBL,  
 JKMSxxxM-72H-TI, JKMSxxxM-72HL-TI, JKMSxxxM-72HB-TI,  
 JKMSxxxM-72HBL-TI (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60H, JKMxxxM-60HL, JKMxxxM-60HB, JKMxxxM-60HBL,  
 JKMSxxxM-60H-TI, JKMSxxxM-60HL-TI, JKMSxxxM-60HB-TI,  
 JKMSxxxM-60HBL-TI (xxx=270-350, in steps of 5, 120 cells)  
 MMxxx-72HLA-MB, MMxxx-72HLA-AB, SMMxxx-72HLA-MB-TI,  
 SMMxxx-72HLA-AB-TI (xxx=335-425, in steps of 5, 144 cells)  
 MMxxx-60HLA-MB, MMxxx-60HLA-AB, SMMxxx-60HLA-MB-TI,  
 SMMxxx-60HLA-AB-TI (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxM-72HL-Q, JKMxxxM-72HBL-Q, JKMSxxxM-72HL-TI-Q,  
 JKMSxxxM-72HBL-TI-Q (xxx=335-425, in steps of 5, 144 cells)  
 JKMxxxM-60HL-Q, JKMxxxM-60HBL-Q, JKMSxxxM-60HL-TI-Q,  
 JKMSxxxM-60HBL-TI-Q (xxx=270-350, in steps of 5, 120 cells)  
 JKMxxxPP-72, JKMxxxPP-72(Plus), JKMxxxPP-72B, JKMSxxxPP-72,  
 JKMSxxxPP-72-J (xxx=320-355, in steps of 5, 72 cells)  
 JKMxxxPP-60, JKMxxxPP-60(Plus), JKMxxxPP-60B, JKMSxxxPP-60,  
 JKMSxxxPP-60-J (xxx=260-290, in steps of 5, 60 cells)  
 JKMxxxPP-72H, JKMxxxPP-72HB

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China

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(xxx=330-380, in steps of 5, 144 cells)  
JKMxxxPP-60H, JKMxxxPP-60HB  
(xxx=260-315, in steps of 5, 120 cells)  
JKMxxxM-72H-T, JKMxxxM-72HL-T  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxM-60H-T, JKMxxxM-60HL-T  
(xxx=315-355, in steps of 5, 120 cells)  
JKMxxxM-72HL-T-Q, MMxxx-72HLA-BB  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxM-60HL-T-Q, MMxxx-60HLA-BB  
(xxx=315-355, in steps of 5, 120 cells)  
JKMxxxN-72H-T, JKMxxxN-72HL-T  
(xxx=375-425, in steps of 5, 144 cells)  
JKMxxxN-60H-T, JKMxxxN-60HL-T  
(xxx=315-355 in steps of 5, 120 cells)  
JKMSxxxM-72-MX3, JKMSxxxM-72B-MX3, JKMSxxxM-72L-MX3,  
JKMSxxxM-72BL-MX3 (xxx=335-395, in steps of 5, 72 cells)  
JKMSxxxM-60-MX3, JKMSxxxM-60B-MX3, JKMSxxxM-60L-MX3,  
JKMSxxxM-60BL-MX3 (xxx=270-340, in steps of 5, 60 cells)  
SMMxxx-72LA-MB-MX3, SMMxxx-72LA-AB-MX3  
(xxx=335-395, in steps of 5, 72 cells)  
SMMxxx-60LA-MB-MX3, SMMxxx-60LA-AB-MX3  
(xxx=270-340, in steps of 5, 60 cells)  
JKMSxxxM-72H-MX3, JKMSxxxM-72HB-MX3, JKMSxxxM-72HL-MX3,  
JKMSxxxM-72HBL-MX3 (xxx=335-395, in steps of 5, 144 cells)  
JKMSxxxM-60H-MX3, JKMSxxxM-60HB-MX3, JKMSxxxM-60HL-MX3,  
JKMSxxxM-60HBL-MX3 (xxx=270-340, in steps of 5, 120 cells)  
JKMSxxxM-72HL-MX3-Q, JKMSxxxM-72HBL-MX3-Q,  
SMMxxx-72HLA-MB-MX3, SMMxxx-72HLA-AB-MX3,  
(xxx=335-395, in steps of 5, 144 cells)  
JKMSxxxM-60HL-MX3-Q, JKMSxxxM-60HBL-MX3-Q,  
SMMxxx-60HLA-MB-MX3, SMMxxx-60HLA-AB-MX3  
(xxx=270-340, in steps of 5, 120 cells)  
JKMSxxxPP-72-MX3, JKMSxxxPP-72B-MX3, JKMSxxxPP-72L-MX3,  
JKMSxxxPP-72BL-MX3 (xxx=320-355, in steps of 5, 72 cells)  
JKMSxxxPP-60-MX3, JKMSxxxPP-60B-MX3, JKMSxxxPP-60L-MX3,  
JKMSxxxPP-60BL-MX3 (xxx=260-290, in steps of 5, 60 cells)  
JKMSxxxPP-72H-MX3, JKMSxxxPP-72HB-MX3, JKMSxxxPP-72HL-  
MX3, JKMSxxxPP-72HBL-MX3 (xxx=330-380, in steps of 5, 144cells)  
JKMSxxxPP-60H-MX3, JKMSxxxPP-60HB-MX3, JKMSxxxPP-60HL-  
MX3, JKMSxxxPP-60HBL-MX3 (xxx=260-315, in steps of 5, 120 cells)  
JKMxxxM-72H-MBB, JKMSxxxM-72H-MBB-TI, JKMSxxxM-72H-MBB-  
MX3 (xxx=385-425, in steps of 5, 144 cells)  
JKMxxxM-60H-MBB, JKMSxxxM-60H-MBB-TI, JKMSxxxM-60H-MBB-  
MX3 (xxx=320-355, in steps of 5, 120 cells)  
MMxxx-72HLA-MB-MBB, SMMxxx-72HLA-MB-MBB-TI  
(xxx=385-425, in steps of 5, 144 cells)  
MMxxx-60HLA-MB-MBB, SMMxxx-60HLA-MB-MBB-TI  
(xxx=320-355, in steps of 5, 120 cells)  
JKMxxxM-72H-MBB-T (xxx=385-405, in steps of 5, 144 cells)  
JKMxxxM-60H-MBB-T (xxx=320-335, in steps of 5, 120 cells)  
JKMxxxN-72H-MBB-T (xxx=390-420, in steps of 5, 144 cells)  
JKMxxxN-60H-MBB-T (xxx=330-350, in steps of 5, 120 cells)  
JKSM3-DFCA-xxx (xxx=400-440, in steps of 5, 156 cells)  
JKSM3-CFCA-xxx (xxx=335-370, in steps of 5, 132 cells)

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China

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JKSM3-DHCA-xxx (xxx=400-450, in steps of 5, 156 cells)  
 JKSM3-CHCA-xxx (xxx=340-380, in steps of 5, 132 cells)  
 JKSN3-DHCA-xxx (xxx=410-440, in steps of 5, 156 cells)  
 JKSN3-CHCA-xxx (xxx=345-370, in steps of 5, 132 cells)  
 JKMxxxM-78H, JKMSxxxM-78H-TI  
 (xxx=405-465, in steps of 5, 156 cells)  
 JKMxxxM-66H, JKMSxxxM-66H-TI  
 (xxx=340-390, in steps of 5, 132 cells)  
 MMxxx-78HLA-MB, SMMxxx-78HLA-MB-TI  
 (xxx=405-465, in steps of 5, 156 cells)  
 MMxxx-66HLA-MB, SMMxxx-66HLA-MB-TI  
 (xxx=340-390, in steps of 5, 132 cells)  
 JKMxxxM-78HB, JKMSxxxM-78HB-TI  
 (xxx=405-435, in steps of 5, 156 cells)  
 JKMxxxM-66HB, JKMSxxxM-66HB-TI  
 (xxx=340-365, in steps of 5, 132 cells)  
 MMxxx-78HLA-AB, SMMxxx-78HLA-AB-TI  
 (xxx=405-435, in steps of 5, 156 cells)  
 MMxxx-66HLA-AB, SMMxxx-66HLA-AB-TI  
 (xxx=340-365, in steps of 5, 132 cells)  
 JKMxxxM-78H-T (xxx=405-455, in steps of 5, 156 cells)  
 JKMxxxM-66H-T (xxx=340-385, in steps of 5, 132 cells)  
 JKMxxxN-78H-T (xxx=410-460, in steps of 5, 156 cells)  
 JKMxxxN-66H-T (xxx=345-385, in steps of 5, 132 cells)  
 JKMxxxM-7RL3, JKMxxxM-7RL3-J, JKMSxxxM-7RL3-TI  
 (xxx=430-495, in steps of 5, 156 cells)  
 JKMxxxM-6RL3, JKMxxxM-6RL3-J, JKMSxxxM-6RL3-TI,  
 JKMSxxxM-6RL3-MX3 (xxx=360-415, in steps of 5, 132 cells)  
 JKMxxxM-6TL3, JKMSxxxM-6TL3-TI, JKMSxxxM-6TL3-MX3  
 (xxx=335-380, in steps of 5, 120 cells)  
 MMxxx-7RLC-MB, SMMxxx-7RLC-MB-TI  
 (xxx=430-475, in steps of 5, 156 cells)  
 MMxxx-6RLC-MB, SMMxxx-6RLC-MB-TI  
 (xxx=360-400, in steps of 5, 132 cells)  
 MMxxx-6TLC-MB, SMMxxx-6TLC-MB-TI  
 (xxx=335-365, in steps of 5, 120 cells)  
 JKMxxxN-7RL3, JKMxxxN-7RL3-J, JKMSxxxN-7RL3-TI  
 (xxx=430-500, in steps of 5, 156 cells)  
 JKMxxxN-6RL3, JKMxxxN-6RL3-J, JKMSxxxN-6RL3-TI,  
 JKMSxxxN-6RL3-MX3 (xxx=360-420, in steps of 5, 132 cells)  
 JKMxxxN-6TL3, JKMSxxxN-6TL3-TI, JKMSxxxN-6TL3-MX3  
 (xxx=335-390, in steps of 5, 120 cells)  
 MNxxx-7RLC-MB, SMNxxx-7RLC-MB-TI  
 (xxx=430-490, in steps of 5, 156 cells)  
 MNxxx-6RLC-MB, SMNxxx-6RLC-MB-TI  
 (xxx=360-410, in steps of 5, 132 cells)  
 MNxxx-6TLC-MB, SMNxxx-6TLC-MB-TI  
 (xxx=335-375, in steps of 5, 120 cells)  
 JKMxxxM-7RL3-T, JKMxxxM-7RL3-T-J  
 (xxx=420-475, in steps of 5, 156 cells)  
 JKMxxxM-6RL3-T, JKMxxxM-6RL3-T-J  
 (xxx=355-400, in steps of 5, 132 cells)  
 JKMxxxM-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
 JKMxxxN-7RL3-T, JKMxxxN-7RL3-T-J  
 (xxx=425-475, in steps of 5, 156 cells)

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JKMxxxN-6RL3-T, JKMSxxxN-6RL3-T-J  
(xxx=355-400, in steps of 5, 132 cells)  
JKMxxxN-6TL3-T (xxx=325-365, in steps of 5, 120 cells)  
JKMxxxN-72H-MBB, JKMSxxxN-72H-MBB-TI  
(xxx=385-425, in steps of 5, 144 cells)  
JKMxxxN-60H-MBB, JKMSxxxN-60H-MBB-TI  
(xxx=320-350, in steps of 5, 120 cells)  
MNxxx-72HLA-MB-MBB, SMNxxx-72HLA-MB-MBB-TI  
(xxx=385-425, in steps of 5, 144 cells)  
MNxxx-60HLA-MB-MBB, SMNxxx-60HLA-MB-MBB-TI  
(xxx=320-350, in steps of 5, 120 cells)  
JKMxxxM-7RL3-B, JKMSxxxM-7RL3-B-TI  
(xxx=425-480, in steps of 5, 156 cells)  
JKMxxxM-6RL3-B, JKMSxxxM-6RL3-B-TI, JKMSxxxM-6RL3-B-MX3  
(xxx=360-405, in steps of 5, 132 cells)  
JKMxxxM-6TL3-B, JKMSxxxM-6TL3-B-TI, JKMSxxxM-6TL3-B-MX3  
(xxx=320-365, in steps of 5, 120 cells)  
MMxxx-7RLC-AB, SMMxxx-7RLC-AB-TI (xxx=425-480, in steps of 5, 156 cells)  
MMxxx-6RLC-AB, SMMxxx-6RLC-AB-TI (xxx=360-405, in steps of 5, 132 cells)  
MMxxx-6TLC-AB, SMMxxx-6TLC-AB-TI  
(xxx=320-365, in steps of 5, 120 cells)  
JKMxxxN-7RL3-B, JKMSxxxN-7RL3-B-TI  
(xxx=425-480, in steps of 5, 156 cells)  
JKMxxxN-6RL3-B, JKMSxxxN-6RL3-B-TI, JKMSxxxN-6RL3-B-MX3  
(xxx=360-425, in steps of 5, 132 cells)  
JKMxxxN-6TL3-B, JKMSxxxN-6TL3-B-TI, JKMSxxxN-6TL3-B-MX3  
(xxx=320-385, in steps of 5, 120 cells)  
MNxxx-7RLC-AB, SMNxxx-7RLC-AB-TI  
(xxx=425-480, in steps of 5, 156 cells)  
MNxxx-6RLC-AB, SMNxxx-6RLC-AB-TI  
(xxx=360-405, in steps of 5, 132 cells)  
MNxxx-6TLC-AB, SMNxxx-6TLC-AB-TI  
(xxx=320-365, in steps of 5, 120 cells)  
JKMxxxN-72H-MBB-B, JKMSxxxN-72H-MBB-B-TI  
(xxx=380-400, in steps of 5, 144 cells)  
JKMxxxN-60H-MBB-B, JKMSxxxN-60H-MBB-B-TI  
(xxx=315-330, in steps of 5, 120 cells)  
JKMxxxN-48H-MBB-B (xxx=255-265, in steps of 5, 96 cells)  
JKMxxxN-32H-MBB-B (xxx=170-175, in steps of 5, 64 cells)  
MNxxx-72HLA-AB-MBB, SMNxxx-72HLA-AB-MBB-TI  
(xxx=380-400, in steps of 5, 144 cells)  
MNxxx-60HLA-AB-MBB, SMNxxx-60HLA-AB-MBB-TI  
(xxx=315-330, in steps of 5, 120 cells)  
JKMxxxM-72HLM, JKMSxxxM-72HLM-MX3  
(xxx=420-465, in steps of 5, 144 cells)  
JKMxxxM-60HLM, JKMSxxxM-60HLM-MX3  
(xxx=350-385, in steps of 5, 120 cells)  
MMxxx-72HLM-MB (xxx=420-465, in steps of 5, 144 cells)  
MMxxx-60HLM-MB (xxx=350-385, in steps of 5, 120 cells)  
JKMxxxM-72HL4, JKMSxxxM-72HL4-J (xxx=475-585, in steps of 5, 144 cells)  
JKMxxxM-66HL4 (xxx=440-505, in steps of 5, 132 cells)  
JKMxxxM-60HL4 (xxx=400-485, in steps of 5, 120 cells)

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JKMxxxM-54HL4 (xxx=360-430, in steps of 5, 108 cells)  
MMxxx-72HLD-MB (xxx=475-570, in steps of 5, 144 cells)  
MMxxx-66HLD-MB (xxx=440-505, in steps of 5, 132cells)  
MMxxx-60HLD-MB (xxx=400-470, in steps of 5, 120 cells)  
MMxxx-54HLD-MB (xxx=360-420, in steps of 5, 108 cells)  
JKMxxxM-7RL4, JKMxxxM-7RL4-J  
(xxx=535-590, in steps of 5, 156 cells)  
JKMxxxM-7TL4, JKMxxxM-7TL4-J  
(xxx=495-570, in steps of 5, 144 cells)  
JKMxxxM-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
JKMxxxM-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
JKMxxxM-5RL4 (xxx=375-435, in steps of 5, 108 cells)  
MMxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
MMxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
MMxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
MMxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
MMxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
JKMxxxM-78H-MBB, JKMSxxxM-78H-MBB-MX3  
(xxx=440-465, in steps of 5, 156 cells)  
JKMxxxM-66H-MBB, JKMSxxxM-66H-MBB-MX3  
(xxx=370-390, in steps of 5, 132 cells)  
MMxxx-78HLA-MB-MBB (xxx=440-465, in steps of 5, 156 cells)  
MMxxx-66HLA-MB-MBB (xxx=370-390, in steps of 5, 132 cells)  
JKMxxxN-78HL4, JKMxxxN-78HL4-J, JKMxxxN-78HL4R  
(xxx=570-650, in steps of 5, 156 cells)  
JKMxxxN-72HL4 (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-72HL4-J (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-72HL4R (xxx=485-615, in steps of 5, 144 cells)  
JKMxxxN-66HL4 (xxx=445-525, in steps of 5, 132 cells)  
JKMxxxN-60HL4 (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-60HL4-J (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-60HL4R (xxx=405-510, in steps of 5, 120 cells)  
JKMxxxN-54HL4, JKMxxxN-54HL4R  
(xxx=365-455, in steps of 5, 108 cells)  
MNxxx-72HLD-MB (xxx=485-555, in steps of 5, 144 cells)  
MNxxx-66HLD-MB (xxx=445-505, in steps of 5, 132 cells)  
MNxxx-60HLD-MB (xxx=405-460, in steps of 5, 120 cells)  
MNxxx-54HLD-MB (xxx=365-415, in steps of 5, 108 cells)  
JKMxxxN-7RL4 (xxx=535-590, in steps of 5, 156 cells)  
JKMxxxN-7TL4 (xxx=495-600, in steps of 5, 144 cells)  
JKMxxxN-7TL4R (xxx=495-600, in steps of 5, 144 cells)  
JKMxxxN-6RL4 (xxx=455-495, in steps of 5, 132 cells)  
JKMxxxN-6TL4 (xxx=415-450, in steps of 5, 120 cells)  
JKMxxxN-5RL4 (xxx=375-460, in steps of 5, 108 cells)  
MNxxx-7RLD-MB (xxx=535-590, in steps of 5, 156 cells)  
MNxxx-7TLD-MB (xxx=495-540, in steps of 5, 144 cells)  
MNxxx-6RLD-MB (xxx=455-495, in steps of 5, 132 cells)  
MNxxx-6TLD-MB (xxx=415-450, in steps of 5, 120 cells)  
MNxxx-5RLD-MB (xxx=375-405, in steps of 5, 108 cells)  
JKMxxxM-72HL4-B (xxx=510-535, in steps of 5, 144 cells)  
JKMxxxM-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
JKMxxxM-60HL4-B (xxx=425-445, in steps of 5, 120 cells)  
JKMxxxM-54HL4-B (xxx=380-425, in steps of 5, 108 cells)  
JKMxxxN-72HL4-B (xxx=510-535, in steps of 5, 144 cells)

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UK  
CA





China

# Attestation of Conformity

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JKMxxxN-66HL4-B (xxx=465-490, in steps of 5, 132 cells)  
 JKMxxxN-60HL4-B (xxx=425-470, in steps of 5, 120 cells)  
 JKMxxxN-54HL4-B, JKMxxxN-54HL4R-B  
 (xxx=380-450, in steps of 5, 108 cells)  
 JKMxxxM-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxM-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxM-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxM-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxM-5RL4-B (xxx=375-430, in steps of 5, 108 cells)  
 JKMxxxN-7RL4-B (xxx=540-575, in steps of 5, 156 cells)  
 JKMxxxN-7TL4-B (xxx=495-530, in steps of 5, 144 cells)  
 JKMxxxN-6RL4-B (xxx=455-485, in steps of 5, 132 cells)  
 JKMxxxN-6TL4-B (xxx=415-440, in steps of 5, 120 cells)  
 JKMxxxN-5RL4-B (xxx=375-455, in steps of 5, 108 cells)  
 JKMxxxN-72HL3-MBB-B (xxx=400-445, in steps of 5, 144 cells)  
 JKMxxxN-60HL3-MBB-B (xxx=330-370, in steps of 5, 120 cells)  
 JKMxxxN-48HL3-MBB-B (xxx=270-295, in steps of 5, 96 cells)  
 JKMxxxN-32HL3-MBB-B (xxx=180-195, in steps of 5, 64 cells)  
 JKMxxxM-72HLM-B, JKMSxxxM-72HLM-B-MX3  
 (xxx=415-445, in steps of 5, 144 cells)  
 JKMxxxM-60HLM-B, JKMSxxxM-60HLM-B-MX3  
 (xxx=350-370, in steps of 5, 120 cells)  
 JKxxxM-66R5-MW (xxx=630-665, in steps of 5, 132 cells)  
 JKxxxM-66H5-MW (xxx=635-670, in steps of 5, 132 cells)  
 JKMxxxM-36H (xxx=195-205, in steps of 5, 72 cells)  
 JKMxxxN-66HL4M (xxx=600-620, in steps of 5, 132 cells)  
 JKBWxxxN-72HL4 (xxx=485-615, in steps of 5, 144 cells)

xxx is standing for rated output power at STC

## Parameters:

Fire Safety Class:	Class C according to UL790.
Safety Class:	Class II
Max. System Voltage:	1500V DC or 1000V DC
Construction:	Framed or frameless, with Junction box, cable and connector.

## Tested according to:

EN IEC 61730-1:2018  
 EN IEC 61730-1:2018/AC:2018-06  
 EN IEC 61730-2:2018  
 EN IEC 61730-2:2018/AC:2018-06

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**UK  
CA**