



CERTIFICATE

No. Z2 099333 0045 Rev. 08

Holder of Certificate: LONGi Green Energy Technology Co., Ltd.

No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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. See also notes overleaf.

Test report no.: 704061700516-08

Valid until: 2025-04-13

Date, 2020-04-14

(Zhulin Zhang)

g-21



Product Service

CERTIFICATE

No. Z2 099333 0045 Rev. 08

Model(s):

LR6-72HV-xxxM, (xxx=335-360 in step of 5)
LR6-60HV-xxxM, (xxx=280-300 in step of 5)
LR6-72PH-xxxM, (xxx=340-380 in step of 5)
LR6-60PH-xxxM, (xxx=285-315 in step of 5)
LR6-72HPH-xxxM, (xxx=365-395 in step of 5)
LR6-72HIH-xxxM, (xxx=365-395 in step of 5)
LR6-60HPH-xxxM, (xxx=300-325, in step of 5)
LR6-60HIH-xxxM, (xxx=300-325 in step of 5)
LR6-72OPH-xxxM, (xxx=385-415 in step of 5)
LR6-60OPH-xxxM, (xxx=335-365 in step of 5)
LR6-72HPH-xxxMC, (xxx=375-390 in step of 5)
LR6-60HPH-xxxMC, (xxx=305-325 in step of 5)
LR6-60ZPH-xxxM, (xxx=330-355 in step of 5)
LR4-72HPH-xxxM, (xxx=420-455 in step of 5)
LR4-72HIH-xxxM, (xxx=420-440 in step of 5)
LR4-60HPH-xxxM, (xxx=350-375 in step of 5)
LR4-60HIH-xxxM, (xxx=350-370 in step of 5)
LR4-72ZPH-xxxM, (xxx=420-435 in step of 5)
LR4-60ZPH-xxxM, (xxx=350-365 in step of 5)
LR4-78ZPH-xxxM, (xxx=470-475 in step of 5)
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
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute. No.10 West Kaifa Road, Yangzhou, 225009 Jiangsu, P.R.China.
Construction:	Framed, with Junction box, cable and connector.

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 61215-1:2016
EN 61215-1-1:2016
EN 61215-2:2017
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

Production Facility(ies):

099605, 099626, 099606, 090968, 001192, 002875,
096558, 102892, 097323, 103410, 103841



Product Service

Attestation of Conformity

No. N8A 099333 0066 Rev. 02

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**
No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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 testing and certification. See also notes overleaf.

Test report no.: 704061700516-07

Date, 2020-03-11 (Zhulin Zhang)

Page 1 of 2

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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Product Service

Attestation of Conformity

No. N8A 099333 0066 Rev. 02

Model(s):

LR6-72HV-xxxM, (xxx=335-360 in step of 5)
LR6-60HV-xxxM, (xxx=280-300 in step of 5)
LR6-72PH-xxxM, (xxx=340-380 in step of 5)
LR6-60PH-xxxM, (xxx=285-315 in step of 5)
LR6-72HPH-xxxM, (xxx=365-395 in step of 5)
LR6-72HIH-xxxM, (xxx=365-395 in step of 5)
LR6-60HPH-xxxM, (xxx=300-325, in step of 5)
LR6-60HIH-xxxM, (xxx=300-325 in step of 5)
LR6-72OPH-xxxM, (xxx=385-415 in step of 5)
LR6-60OPH-xxxM, (xxx=335-365 in step of 5)
LR6-72HPH-xxxMC, (xxx=375-390 in step of 5)
LR6-60HPH-xxxMC, (xxx=305-325 in step of 5)
LR6-60ZPH-xxxM, (xxx=330-355 in step of 5)
LR4-72HPH-xxxM, (xxx=420-455 in step of 5)
LR4-72HIH-xxxM, (xxx=420-440 in step of 5)
LR4-60HPH-xxxM, (xxx=350-375 in step of 5)
LR4-60HIH-xxxM, (xxx=350-370 in step of 5)
LR4-72ZPH-xxxM, (xxx=420-435 in step of 5)
LR4-60ZPH-xxxM, (xxx=350-365 in step of 5)
xxx is standing for rated output power at STC

Parameters:

Fire Safety Class:	Class C according to UL790
Safety Class:	Class II
Maximum System Voltage:	1500V DC
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute. No.10 West Kaifa Road, Yangzhou, 225009 Jiangsu, P.R.China.
Construction:	Framed, 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

Page 2 of 2

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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Product Service

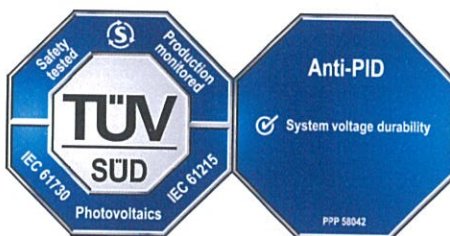
CERTIFICATE

No. Z2 099333 0053 Rev. 03

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**

No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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. See also notes overleaf.

Test report no.: 704061700519-03

Valid until: 2024-12-08

Date, 2019-12-10

(David Bo)





Product Service

CERTIFICATE

No. Z2 099333 0053 Rev. 03

Model(s):

LR6-72HV-xxxM, (xxx=320 to 350 in step of 5)
LR6-60HV-xxxM, (xxx=270 to 300 in step of 5)
LR6-72PH-xxxM, (xxx=340 to 385 in step of 5)
LR6-60PH-xxxM, (xxx=280 to 320 in step of 5)
LR6-72HPH-xxxM, (xxx=350 to 405 in step of 5)
LR6-72HIH-xxxM, (xxx=350 to 405 in step of 5)
LR6-60HPH-xxxM, (xxx=295 to 335 in step of 5)
LR6-60HIH-xxxM, (xxx=295 to 335 in step of 5)
LR6-72OPH-xxxM, (xxx=385 to 400 in step of 5)
LR6-60OPH-xxxM, (xxx=335 to 350 in step of 5)
LR6-72HPH-xxxMC, (xxx=375 to 390 in step of 5)
LR6-60HPH-xxxMC, (xxx=305 to 325 in step of 5)
LR4-72HPH-xxxM, (xxx=400 to 460 in step of 5)
LR4-72HIH-xxxM, (xxx=400 to 460 in step of 5)
LR4-60HPH-xxxM, (xxx=330 to 380 in step of 5)
LR4-60HIH-xxxM, (xxx=330 to 380 in step of 5)
LR4-72ZPH-xxxM, (xxx=420 to 435 in step of 5)
LR4-60ZPH-xxxM, (xxx=350 to 365 in step of 5)
LR6-60ZPH-xxxM, (xxx=330 to 355 in step of 5)
xxx is standing for rated output power at STC

Parameters:

Fire Safety Class:	Class C
Application Class:	Class A
Max. System Voltage:	1500V DC
PID Test Condition:	Test method a of IEC TS 62804-1:2015 ±1500V DC, 96 hrs, 85 % RH, 85 °C.
Construction:	Framed, with Junction box, cable and connector.

Tested according to:

PPP 58042B:2015
IEC 61215:2005
IEC 61730-1:2004
IEC 61730-1:2004/AMD1:2011
IEC 61730-1:2004/AMD2:2013
IEC 61730-2:2004
IEC 61730-2:2004/AMD1:2011

Production Facility(ies):

099626, 099606, 090968, 001192, 096558, 099605,
002875, 097323, 102892, 103410, 103841



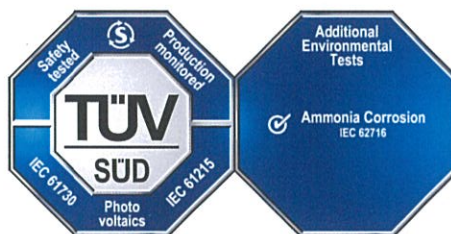
Product Service

CERTIFICATE

No. Z2 099333 0054 Rev. 03

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**
No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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. See also notes overleaf.

Test report no.: 704061700518-03

Valid until: 2024-12-04

Date, 2019-12-06 (David Bo)



Product Service

CERTIFICATE

No. Z2 099333 0054 Rev. 03

Model(s):

LR6-72HV-xxxM, (xxx=320 to 350 in step of 5)
LR6-60HV-xxxM, (xxx=270 to 300 in step of 5)
LR6-72PH-xxxM, (xxx=340 to 385 in step of 5)
LR6-60PH-xxxM, (xxx=280 to 320 in step of 5)
LR6-72HPH-xxxM, (xxx=350 to 405 in step of 5)
LR6-72HIH-xxxM, (xxx=350 to 405 in step of 5)
LR6-60HPH-xxxM, (xxx=295 to 335 in step of 5)
LR6-60HIH-xxxM, (xxx=295 to 335 in step of 5)
LR6-72OPH-xxxM, (xxx=385 to 400 in step of 5)
LR6-60OPH-xxxM, (xxx=335 to 350 in step of 5)
LR6-72HPH-xxxMC, (xxx=375 to 390 in step of 5)
LR6-60HPH-xxxMC, (xxx=305 to 325 in step of 5)
LR4-72HPH-xxxM, (xxx=400 to 460 in step of 5)
LR4-72HIH-xxxM, (xxx=400 to 460 in step of 5)
LR4-60HPH-xxxM, (xxx=330 to 380 in step of 5)
LR4-60HIH-xxxM, (xxx=330 to 380 in step of 5)
LR4-72ZPH-xxxM, (xxx=420 to 435 in step of 5)
LR4-60ZPH-xxxM, (xxx=350 to 365 in step of 5)
LR6-60ZPH-xxxM, (xxx=330 to 355 in step of 5)
xxx is standing for rated output power at STC

Parameters:

Application Class:	Class A
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C
Construction:	Framed, with Junction box, cable and connector.

Tested according to:

IEC 61215:2005
IEC 61730-1:2004
IEC 61730-1:2004/AMD1:2011
IEC 61730-1:2004/AMD2:2013
IEC 61730-2:2004
IEC 61730-2:2004/AMD1:2011
IEC 62716:2013

Production Facility(ies):

099605, 099606, 099626, 090968, 001192, 002875, 096558, 097323, 102892, 103410, 103841

ZERTIFIKAT • CERTIFICATE • 認證證書 • CERTIFICADO • CERTIFICAT



Product Service

CERTIFICATE

No. Z2 099333 0055 Rev. 03

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**
No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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. See also notes overleaf.

Test report no.: 704061700517-03

Valid until: 2024-12-04

Date, 2019-12-06 (David Bo)

No. Z2 099333 0055 Rev. 03

Model(s):

LR6-72HV-xxxM, (xxx=320 to 350 in step of 5)
 LR6-60HV-xxxM, (xxx=270 to 300 in step of 5)
 LR6-72PH-xxxM, (xxx=340 to 385 in step of 5)
 LR6-60PH-xxxM, (xxx=280 to 320 in step of 5)
 LR6-72HPH-xxxM, (xxx=350 to 405 in step of 5)
 LR6-72HIH-xxxM, (xxx=350 to 405 in step of 5)
 LR6-60HPH-xxxM, (xxx=295 to 335 in step of 5)
 LR6-60HIH-xxxM, (xxx=295 to 335 in step of 5)
 LR6-72OPH-xxxM, (xxx=385 to 400 in step of 5)
 LR6-60OPH-xxxM, (xxx=335 to 350 in step of 5)
 LR6-72HPH-xxxMC, (xxx=375 to 390 in step of 5)
 LR6-60HPH-xxxMC, (xxx=305 to 325 in step of 5)
 LR4-72HPH-xxxM, (xxx=400 to 460 in step of 5)
 LR4-72HIH-xxxM, (xxx=400 to 460 in step of 5)
 LR4-60HPH-xxxM, (xxx=330 to 380 in step of 5)
 LR4-60HIH-xxxM, (xxx=330 to 380 in step of 5)
 LR4-72ZPH-xxxM, (xxx=420 to 435 in step of 5)
 LR4-60ZPH-xxxM, (xxx=350 to 365 in step of 5)
 LR6-60ZPH-xxxM, (xxx=330 to 355 in step of 5)
 xxx is standing for rated output power at STC

Parameters:

Severity of	
Salt Mist Test:	Severity 6 and severity 1
Application Class:	Class A
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C
Construction:	Framed, with Junction box, cable and connector.

**Tested
according to:**

IEC 61215:2005
IEC 61730-1:2004
IEC 61730-1:2004/AMD1:2011
IEC 61730-1:2004/AMD2:2013
IEC 61730-2:2004
IEC 61730-2:2004/AMD1:2011
IEC 61701:2011

Production Facility(ies):

096558, 002875, 001192, 090968, 099626, 099605, 099606,
097323, 102892, 103410, 103841

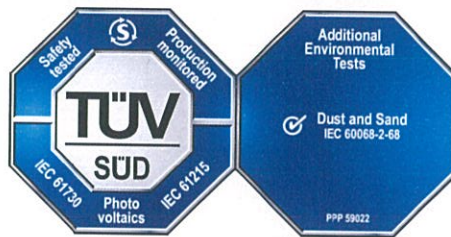


CERTIFICATE

No. Z2 099333 0027 Rev. 03

Holder of Certificate: **LONGi Green Energy Technology Co., Ltd.**
No. 388, Middle Hangtian Road
Chang'an District
710100 Xi'an City, Shaanxi
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. See also notes overleaf.

Test report no.: 704061718717-03

Valid until: 2024-12-08

Date, 2019-12-10

(David Bo)



No. Z2 099333 0027 Rev. 03

Model(s):

LR6-72HV-xxxM, (xxx=320 to 350 in step of 5)
 LR6-60HV-xxxM, (xxx=270 to 300 in step of 5)
 LR6-72PH-xxxM, (xxx=340 to 385 in step of 5)
 LR6-60PH-xxxM, (xxx=280 to 320 in step of 5)
 LR6-72HPH-xxxM, (xxx=350 to 405 in step of 5)
 LR6-72HIH-xxxM, (xxx=350 to 405 in step of 5)
 LR6-60HPH-xxxM, (xxx=295 to 335 in step of 5)
 LR6-60HIH-xxxM, (xxx=295 to 335 in step of 5)
 LR6-72OPH-xxxM, (xxx=385 to 400 in step of 5)
 LR6-60OPH-xxxM, (xxx=335 to 350 in step of 5)
 LR6-72HPH-xxxMC, (xxx=375 to 390 in step of 5)
 LR6-60HPH-xxxMC, (xxx=305 to 325 in step of 5)
 LR4-72HPH-xxxM, (xxx=400 to 460 in step of 5)
 LR4-72HIH-xxxM, (xxx=400 to 460 in step of 5)
 LR4-60HPH-xxxM, (xxx=330 to 380 in step of 5)
 LR4-60HIH-xxxM, (xxx=330 to 380 in step of 5)
 LR4-72ZPH-xxxM, (xxx=420 to 435 in step of 5)
 LR4-60ZPH-xxxM, (xxx=350 to 365 in step of 5)
 LR6-60ZPH-xxxM, (xxx=330 to 355 in step of 5)
 xxx is standing for rated output power at STC

Parameters:

Application Class:	Class A
Max. System Voltage:	1500V DC
Fire Safety Class:	Class C
Construction:	Framed, with Junction box, cable and connector.
Dust and Sand	
Test Method:	IEC 60068-2-68, LC1
Dust/sand Type:	95% SiO ₂
Dust /sand Concentration:	5g/m ³
Testing Air Velocity:	20m/s
Test Duration:	4h/each side.

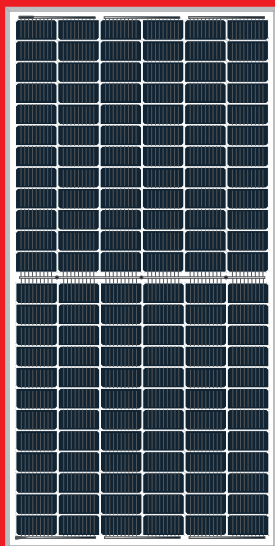
**Tested
according to:**

PPP 59022A:2013
IEC 61215:2005
IEC 61730-1:2004
IEC 61730-1:2004/AMD1:2011
IEC 61730-1:2004/AMD2:2013
IEC 61730-2:2004
IEC 61730-2:2004/AMD1:2011

Production Facility(ies):

002875, 001192, 090968, 099626, 099605, 099606,
096558, 097323, 102892, 103410, 103841



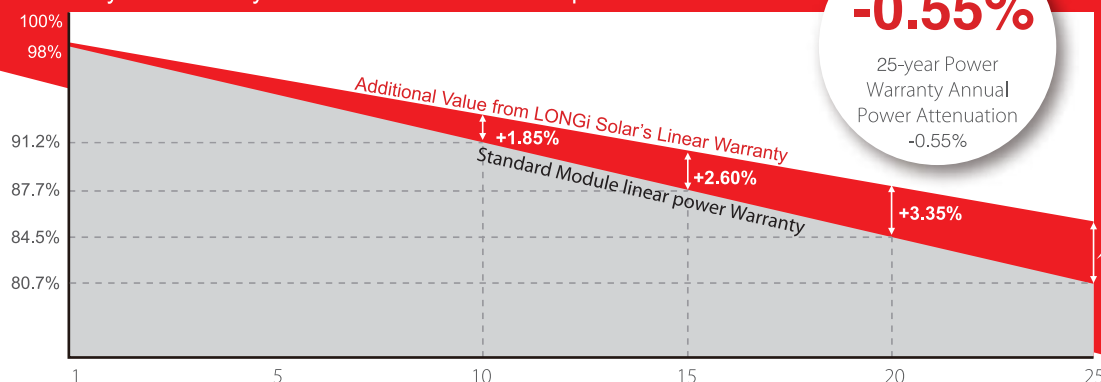


LR4-72HPH 425~455M



**High Efficiency
Low LID Mono PERC with
Half-cut Technology**

12-year Warranty for Materials and Processing;
25-year Warranty for Extra Linear Power Output



Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety



* Specifications subject to technical changes and tests.
LONGi Solar reserves the right of interpretation.

Positive power tolerance (0 ~ +5W) guaranteed

High module conversion efficiency (up to 20.9%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current

LONGi

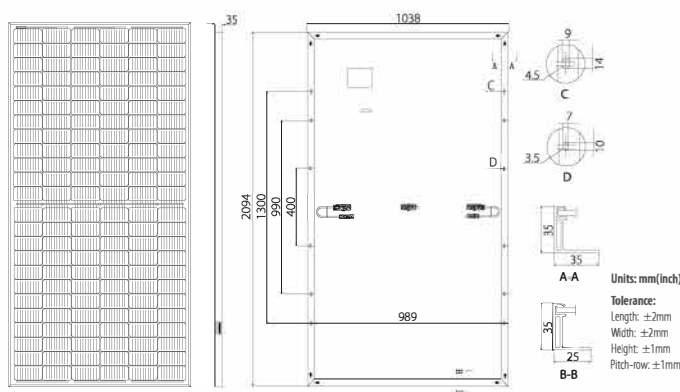
Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China
Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

20200414V11 for EU DG only

LR4-72HPH 425~455M

Design (mm)



Mechanical Parameters

Cell Orientation: 144 (6×24)
 Junction Box: IP68, three diodes Output
 Cable: 4mm², 300mm
 Glass: Single glass 3.2mm coated tempered
 glass Frame: Anodized aluminum alloy frame
 Weight: 23.5kg
 Dimension: 2094×1038×35mm
 Packaging: 30pcs per pallet
 150pcs per 20'GP
 660pcs per 40'HC

Operating Parameters

Operational Temperature: -40℃ ~ +85℃
 Power Output Tolerance: 0 ~ +5 W
 Voc and Isc Tolerance: ±3%
 Maximum System Voltage: DC1500V (IEC/UL)
 Maximum Series Fuse Rating: 20A
 Nominal Operating Cell Temperature: 45±2℃
 Safety Class: Class II
 Fire Rating: UL type 1 or 2

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	LR4-72HPH-425M		LR4-72HPH-430M		LR4-72HPH-435M		LR4-72HPH-440M		LR4-72HPH-445M		LR4-72HPH-450M		LR4-72HPH-455M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	425	317.4	430	321.1	435	324.9	440	328.6	445	332.3	450	336.1	455	339.8
Open Circuit Voltage (Voc/V)	48.3	45.3	48.5	45.5	48.7	45.7	48.9	45.8	49.1	46.0	49.3	46.2	49.5	46.4
Short Circuit Current (Isc/A)	11.23	9.08	11.31	9.15	11.39	9.21	11.46	9.27	11.53	9.33	11.60	9.38	11.66	9.43
Voltage at Maximum Power (Vmp/V)	40.5	37.7	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5	41.5	38.6	41.7	38.8
Current at Maximum Power (Imp/A)	10.50	8.42	10.57	8.47	10.64	8.53	10.71	8.59	10.78	8.64	10.85	8.70	10.92	8.75
Module Efficiency(%)	19.6		19.8		20.0		20.2		20.5		20.7		20.9	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25℃, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃, Spectra at AM1.5, Wind at 1m/s

Temperature Ratings (STC)

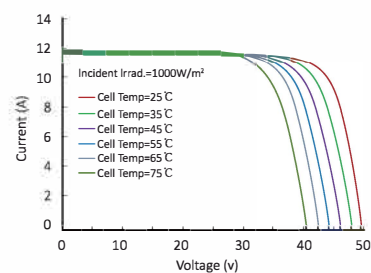
Temperature Coefficient of Isc	+0.048%/℃
Temperature Coefficient of Voc	-0.270%/℃
Temperature Coefficient of Pmax	-0.350%/℃

Mechanical Loading

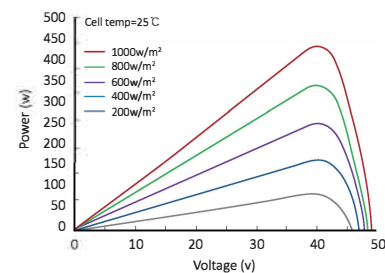
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V Curve

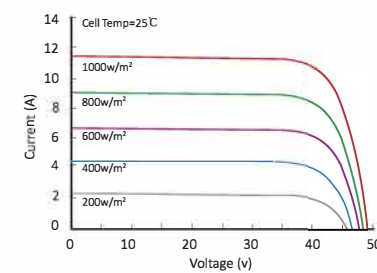
Current-Voltage Curve (LR4-72HPH-440M)



Power-Voltage Curve (LR4-72HPH-440M)



Current-Voltage Curve (LR4-72HPH-440M)



LONGi

Room 801, Tower 3, Lujiazui Financial Plaza, No.826 Century Avenue, Pudong Shanghai, 200120, China
 Tel: +86-21-80162606 E-mail: module@longi-silicon.com Facebook: www.facebook.com/LONGi Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGi have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.