Hi-MO 7

LR8-66HGD 595~625M

- High-performance PV modules for utility power plants
- Advanced HPDC cell technology delivers superior module efficiency and power
- High bifaciality and excellent power temperature coefficient achieves high energy yield
- LONGi lifecycle quality ensures long-term performance



12-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval











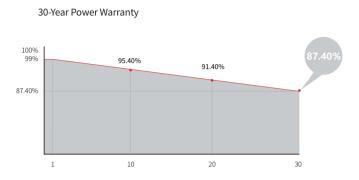


LR8-66HGD 595~625M

0.4%YEAR 2-30
POWER DEGRADATION

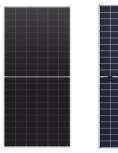
HALF-CELL Lower operating temperature

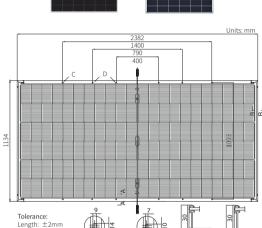
Additional Value



Mechanical Parameters

Cell Orientati	ion 132 (6×22)			
Junction Box	IP68, three diodes			
Output Cable	4mm², +400, -200mm/±1400mm length can be customized			
Glass	Dual glass, 2.0+2.0mm heat strengthened glass			
Frame	Anodized aluminum alloy frame			
Weight	33.5kg			
Dimension	2382×1134×30mm			
Packaging 3	36pcs per pallet / 144pcs per 20' GP / 720pcs or 576pcs (only for USA) per			





Electrical Characteristics	STC: AM1.5 1000W/m ² 25°C				NOCT: AM1.5 800W/m ² 20°C			1.0 m/s Test uncertainty for Pmax: ±3%						
Module Type	LR8-66	HGD-595M	LR8-661	HGD-600M	LR8-661	HGD-605M	LR8-66I	HGD-610M	LR8-661	HGD-615M	LR8-661	HGD-620M	LR8-661	HGD-625M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	595	452.9	600	456.7	605	460.5	610	464.3	615	468.1	620	471.9	625	475.8
Open Circuit Voltage (Voc/V)	47.78	45.41	47.98	45.60	48.18	45.79	48.38	45.98	48.58	46.17	48.78	46.36	48.98	46.55
Short Circuit Current (Isc/A)	15.80	12.69	15.85	12.73	15.90	12.77	15.95	12.81	16.00	12.85	16.05	12.89	16.10	12.93
Voltage at Maximum Power (Vmp/V)	39.91	37.93	40.11	38.12	40.31	38.31	40.51	38.50	40.71	38.69	40.91	38.88	41.11	39.07
Current at Maximum Power (Imp/A)	14.91	11.94	14.96	11.98	15.01	12.02	15.06	12.06	15.11	12.10	15.16	12.14	15.21	12.18
Module Efficiency(%)	22	1.0	22	1.2	22	.4	22	1.6	22	.8	23	1.0	23	.1

Electrical characteristics with different rear side power gain (reference to 610W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
641	48.38	16.75	40.51	15.81	5%
671	48.38	17.55	40.51	16.57	10%
703	48.48	18.34	40.61	17.32	15%
734	48.48	19.14	40.61	18.07	20%
764	48.48	19.94	40.61	18.82	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	35A
Nominal Operating Cell Temperature	45±2℃
Protection Class	Class II
Bifaciality	80±5%
Fire Rating	UL type 29 IFC Class C
	IEC Class C

Mechanical Loading

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

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C







No. Z2 099333 0043 Rev. 25

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. 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

Test report no.: 704061802007-26

Valid until: 2029-07-10

Date, 2024-11-05

(Zhadin Zha

(Zhulin Zhang)



No. Z2 099333 0043 Rev. 25

Model(s):

LR6-60BP-xxxM (xxx=290 to 315, in step of 5) LR6-72DG-xxxM (xxx=330 to 360, in step of 5) LR6-60DG-xxxM (xxx=275 to 300, in step of 5) LR6-72PD-xxxM (xxx=345 to 370, in step of 5) LR6-60PD-xxxM (xxx=290 to 305, in step of 5) LR6-72HBD-xxxM (xxx=360 to 395, in step of 5) LR6-60HBD-xxxM (xxx=300 to 325, in step of 5) LR6-72HIBD-xxxM (xxx=360 to 380, in step of 5) LR6-60HIBD-xxxM (xxx=300 to 325, in step of 5) LR6-78HBD-xxxM (xxx=395 to 410, in step of 5) LR6-78HIBD-xxxM (xxx=395 to 410, in step of 5) LR6-72OPD-xxxM (xxx=370 to 410, in step of 5) LR6-60OPD-xxxM (xxx=325 to 345, in step of 5) LR6-72HPD-xxxM (xxx=360 to 385, in step of 5) LR6-60HPD-xxxM (xxx=300 to 320, in step of 5) LR6-72MBD-xxxM (xxx=365 to 385, in step of 5) LR6-60MBD-xxxM (xxx=305 to 320, in step of 5) LR6-72MPD-xxxM (xxx=365 to 385, in step of 5) LR6-60MPD-xxxM (xxx=305 to 320, in step of 5) LR6-78OPD-xxxM (xxx=425) LR6-72HBD-xxxMC (xxx=360 to 395, in step of 5) LR6-60HBD-xxxMC (xxx=300 to 325, in step of 5) LR6-72HIBD-xxxMC (xxx=360 to 380, in step of 5) LR6-60HIBD-xxxMC (xxx=300 to 325, in step of 5) LR4-72HBD-xxxM (xxx=415 to 455, in step of 5) LR4-60HBD-xxxM (xxx=345 to 375, in step of 5) LR4-72HIBD-xxxM (xxx=415 to 450, in step of 5) LR4-60HIBD-xxxM (xxx=345 to 375, in step of 5) LR4-78HBD-xxxM (xxx=470 to 495, in step of 5) LR4-78ZBD-xxxM (xxx=460 to 485, in step of 5) LR5-72HBD-xxxM (xxx=500 to 565, in step of 5) LR5-66HBD-xxxM (xxx=475 to 515, in step of 5) LR5-72HIBD-xxxM (xxx=500 to 565, in step of 5) LR5-66HIBD-xxxM (xxx=475 to 515, in step of 5) LR5-78ZBD-xxxM (xxx=565 to 580, in step of 5) LR5-78HBD-xxxM (xxx=570 to 605, in step of 5) LR5-72HND-xxxM (xxx=540 to 580, in step of 5) LR5-66HND-xxxM (xxx=495 to 530, in step of 5) LR5-60HND-xxxM (xxx=450 to 480, in step of 5) LR5-54HND-xxxM (xxx=405 to 435, in step of 5) LR5-72HTD-xxxM (xxx=550 to 600, in step of 5) LR5-60HBD-xxxM (xxx=435 to 470, in step of 5) LR5-60HIBD-xxxM (xxx=435 to 470, in step of 5) LR5-54HBD-xxxM,(xxx=390 to 425, in step of 5) LR5-54HIBD-xxxM (xxx=390 to 425, in step of 5) LR5-72HBD-xxxMa (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc (xxx=500 to 565, in step of 5) LR5-72HGD-xxxM (xxx=540 to 595, in step of 5) LR5-72HBD-HD-xxxM (xxx=500 to 565, in step of 5) LR7-72HGD-xxxM (xxx=565 to 635, in step of 5) LGi5-72HTD-xxxM (xxx=550 to 600, in step of 5) LR5-54HTD-xxxM (xxx=415 to 450, in step of 5) LR5-72HJD-xxxM (xxx=575 to 595, in step of 5) LR7-72HJD-xxxM (xxx=600 to 655, in step of 5) LR5-54HABB-xxxM (xxx=395 to 415, in step of 5) LR5-54HIBB-xxxM (xxx=395 to 415, in step of 5) LR5-54HABD-xxxM (xxx=395 to 420, in step of 5) LR5-72HTDR-xxxM (xxx=550 to 600, in step of 5) LR5-72HGD-xxxMc (xxx=560 to 590, in step of 5) LR5-72HBD-xxxMc1 (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc2 (xxx=500 to 565, in step of 5)

LR6-72BP-xxxM (xxx=350 to 380, in step of 5)



No. Z2 099333 0043 Rev. 25

LR5-78HGD-xxxM (xxx=610 to 645, in step of 5) LR5-54HTBB-xxxM (xxx=410 to 435, in step of 5) LR5-54HTDB-xxxM (xxx=395 to 430, in step of 5) LR8-66HGD-xxxM (xxx=595 to 625, in step of 5) LR8-48HGD-xxxM (xxx=430 to 455, in step of 5) LR7-72HTDR-xxxM (xxx=585 to 625, in step of 5) LR7-66HTDR-xxxM (xxx=535 to 575, in step of 5) LR7-60HTDR-xxxM (xxx=485 to 525, in step of 5) LR7-54HTDR-xxxM (xxx=435 to 475, in step of 5) LR7-72HYD-xxxM (xxx=625 to 660, in step of 5) LR7-48HGDT-xxxM (xxx=385 to 415, in step of 5) LR7-54HGBB-xxxM (xxx=440 to 460, in step of 5) LR8-66HYD-xxxM (xxx=625 to 655, in step of 5, 132cells) xxx is standing for rated output power at STC.

Parameters: Safety Class: Class II 1500 V DC Maximum System Voltage:

Fire safety Class: Class C according to UL790

Construction:

Framed or framless, with Junction box,

Cable and Connectors.

IEC 61215-1:2016 **Tested** IEC 61215-1-1:2016 according to: IEC 61215-2:2016

IEC 61730-1:2016 IEC 61730-2:2016 IEC 62716:2013



Attestation of Conformity

No. N8A 099333 0110 Rev. 05

Holder of Attestation: 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 conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 704062401208-05

Date, 2024-12-04

(Zhulin Zhang)

Page 1 of 2

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.



Attestation of Conformity

No. N8A 099333 0110 Rev. 05

Model(s):

LR5-66HBD-xxxM (xxx=475 to 515, in step of 5) LR5-72HIBD-xxxM (xxx=500 to 565, in step of 5) LR5-66HIBD-xxxM (xxx=475 to 515, in step of 5) LR5-60HBD-xxxM (xxx=435 to 470, in step of 5) LR5-54HBD-xxxM (xxx=390 to 425, in step of 5) LR5-60HIBD-xxxM (xxx=435 to 470, in step of 5) LR5-54HIBD-xxxM (xxx=390 to 425, in step of 5) LR5-78HBD-xxxM (xxx=570 to 605, in step of 5) LR5-72HBD-xxxMa (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc1 (xxx=530 to 565, in step of 5) LR5-72HBD-xxxMc2 (xxx=530 to 565, in step of 5) LR5-54HABB-xxxM (xxx=395 to 415, in step of 5) LR5-54HIBB-xxxM (xxx=395 to 415, in step of 5) LR5-54HABD-xxxM (xxx=395 to 420, in step of 5) LR5-72HBD-HD-xxxM (xxx=500 to 565, in step of 5) LR5-72HGD-xxxM (xxx=540 to 590, in step of 5) LR5-72HGD-xxxMc (xxx=560 to 590, in step of 5) LR7-72HGD-xxxM (xxx=565 to 635, in step of 5) LR5-72HJD-xxxM (xxx=575 to 595, in step of 5) LR5-72HTDR-xxxM (xxx=550 to 600, in step of 5) LR5-72HTD-xxxM (xxx=550 to 600, in step of 5) LR5-54HTD-xxxM (xxx=415 to 450, in step of 5) LR8-66HGD-xxxM (xxx=595 to 625, in step of 5) LR8-48HGD-xxxM (xxx=430 to 455, in step of 5) LR7-72HTDR-xxxM (xxx=585 to 625, in step of 5) LR7-66HTDR-xxxM (xxx=535 to 575, in step of 5) LR7-60HTDR-xxxM (xxx=485 to525, in step of 5) LR7-54HTDR-xxxM (xxx=435 to 475, in step of 5) LR7-72HYD-xxxM (xxx=625 to 660, in step of 5) LR7-48HGDT-xxxM (xxx=385 to 415, in step of 5) LR7-54HGBB-xxxM (xxx=440 to 460, in step of 5) LR8-66HYD-xxxM (xxx=625 to 650, in step of 5) LGi7-72HTD-xxxM (xxx=585 to 625, in step of 5) LR7-72HVD-xxxM (xxx=625 to 660, in step of 5) xxx stands for rated output power at STC.

LR5-72HBD-xxxM (xxx=500 to 565, in step of 5)

Parameters:

Fire Safety Class: Class A or C according to UL790.

Safety Class: Class II
Max. System Voltage: 1500V DC

Test Laboratory: China Telecommunication

Technology Labs. CuiHu Cloud Center,

No.1 Gaolizhang Road, Wenquan Town

Haidian District, Beijing, China. Framed, with Junction box,

cable and connector.

Tested according to:

EN IEC 61730-1:2018 EN IEC 61730-2:2018

Construction:

Page 2 of 2

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.





No. Z2 099333 0039 Rev. 37

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. 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

Test report no.: 704061700509-39

Valid until: 2029-12-03

Date, 2024-12-04

934

(Zhulin Zhang)



No. Z2 099333 0039 Rev. 37

Model(s):

LR6-60BP-xxxM (xxx=290 to 315, in step of 5) LR6-72DG-xxxM (xxx=330 to 360, in step of 5) LR6-60DG-xxxM (xxx=275 to 300, in step of 5) LR6-72PD-xxxM (xxx=345 to 370, in step of 5) LR6-60PD-xxxM (xxx=290 to 305, in step of 5) LR6-72HBD-xxxM (xxx=360 to 395, in step of 5) LR6-60HBD-xxxM (xxx=300 to 325, in step of 5) LR6-72HIBD-xxxM (xxx=360 to 380, in step of 5) LR6-60HIBD-xxxM (xxx=300 to 325, in step of 5) LR6-78HBD-xxxM (xxx=395 to 410, in step of 5) LR6-78HIBD-xxxM (xxx=395 to 410, in step of 5) LR6-72OPD-xxxM (xxx=370 to 410, in step of 5) LR6-60OPD-xxxM (xxx=325 to 345, in step of 5) LR6-72HPD-xxxM (xxx=360 to 385, in step of 5) LR6-60HPD-xxxM (xxx=300 to 320, in step of 5) LR6-72MBD-xxxM (xxx=365 to 385, in step of 5) LR6-60MBD-xxxM (xxx=305 to 320, in step of 5) LR6-72MPD-xxxM (xxx=365 to 385, in step of 5) LR6-60MPD-xxxM (xxx=305 to 320, in step of 5) LR6-78OPD-xxxM (xxx=425) LR6-72HBD-xxxMC (xxx=360 to 395, in step of 5) LR6-60HBD-xxxMC (xxx=300 to 325, in step of 5) LR6-72HIBD-xxxMC (xxx=360 to 380, in step of 5) LR6-60HIBD-xxxMC (xxx=300 to 325, in step of 5) LR4-72HBD-xxxM (xxx=415 to 455, in step of 5) LR4-60HBD-xxxM (xxx=345 to 375, in step of 5) LR4-72HIBD-xxxM (xxx=415 to 450, in step of 5) LR4-60HIBD-xxxM (xxx=345 to 375, in step of 5) LR4-78HBD-xxxM (xxx=470 to 495, in step of 5) LR4-78ZBD-xxxM (xxx=460 to 485, in step of 5) LR5-72HBD-xxxM (xxx=500 to 565, in step of 5) LR5-66HBD-xxxM (xxx=475 to 515, in step of 5) LR5-72HIBD-xxxM (xxx=500 to 565, in step of 5) LR5-66HIBD-xxxM (xxx=475 to 515, in step of 5) LR5-60HBD-xxxM (xxx=435 to 470, in step of 5) LR5-54HBD-xxxM (xxx=390 to 425, in step of 5) LR5-60HIBD-xxxM (xxx=435 to 470, in step of 5) LR5-54HIBD-xxxM (xxx=390 to 425, in step of 5) LR5-78ZBD-xxxM (xxx=565 to 580, in step of 5) LR5-78HBD-xxxM (xxx=570 to 605, in step of 5) LR5-72HND-xxxM (xxx=540 to 580, in step of 5) LR5-66HND-xxxM (xxx=495 to 530, in step of 5) LR5-60HND-xxxM (xxx=450 to 480, in step of 5 LR5-54HND-xxxM (xxx=405 to 435, in step of 5) LR5-72HTD-xxxM (xxx=550 to 600, in step of 5) LGi6-32HPDH-xxxRM (xxx=162 to 171, in step of 3) LGi4-22HPD-xxxRM (xxx=129 to 138, in step of 3) LGi4-48HBD-xxxRM (xxx=285 to 310, in step of 5) LGi4-72HBC-xxxWM (xxx=360 to 410, in step of 5) LGi4-66HBC-xxxWM (xxx=330 to 375, in step of 5) LGi4-60HBC-xxxWM (xxx=300 to 340, in step of 5) LGi4-54HBC-xxxWM (xxx=270 to 305, in step of 5) LGi4-48HBC-xxxWM (xxx=240 to 270, in step of 5) LGi4-44HBC-xxxWM (xxx=220 to 250, in step of 5) LGi4-40HBC-xxxWM (xxx=200 to 225, in step of 5) LGi4-36HBC-xxxWM (xxx=180 to 204, in step of 3) LGi4-32HBC-xxxWM (xxx=162 to 180, in step of 3) LR5-72HBD-xxxMa (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc (xxx=500 to 565, in step of 5) LR5-72HBD-xxxMc1 (xxx=530 to 565, in step of 5) LR5-72HBD-xxxMc2 (xxx=530 to 565, in step of 5) LR5-72HGD-xxxM (xxx=540 to 595, in step of 5) LR5-72HGD-xxxMc (xxx=560 to 590, in step of 5) LR5-72HBD-HD-xxxM (xxx=500 to 565, in step of 5) LGi5-72HBD-xxxM (xxx=500 to 565, in step of 5) LR5-54HABB-xxxM (xxx=395 to 415, in step of 5) LR5-54HIBB-xxxM (xxx=395 to 415, in step of 5) LR5-54HABD-xxxM (xxx=395 to 420, in step of 5) LR7-72HGD-xxxM (xxx=565 to 635, in step of 5)

LR6-72BP-xxxM (xxx=350 to 380, in step of 5)



No. Z2 099333 0039 Rev. 37

LR5-54HTD-xxxM (xxx=415 to 450, in step of 5) LGi5-72HTD-xxxM (xxx=550 to 600, in step of 5) LR5-72HJD-xxxM (xxx=575 to 595, in step of 5) LR7-72HJD-xxxM (xxx=600 to 655, in step of 5) LR5-78HGD-xxxM (xxx=610 to 645, is step of 5) LR5-54HTBB-xxxM (xxx=410 to 435, in step of 5) LR5-72HTDR-xxxM (xxx=550 to 600, in step of 5) LR5-54HTDB-xxxM (xxx=395 to 430, in step of 5) LR8-66HGD-xxxM (xxx=595 to 625, in step of 5) LR8-48HGD-xxxM (xxx=430 to 455, in step of 5) LR7-72HTDR-xxxM (xxx=585 to 625, in step of 5) LR7-66HTDR-xxxM (xxx=535 to 575, in step of 5) LR7-60HTDR-xxxM (xxx=485 to 525, in step of 5) LR7-54HTDR-xxxM (xxx=435 to 475, in step of 5) LR7-72HYD-xxxM (xxx=625 to 660, in step of 5) LR7-48HGDT-xxxM (xxx=385 to 415, in step of 5) LR7-54HGBB-xxxM (xxx=440 to 460, in step of 5) LR8-66HYD-xxxM (xxx=625 to 655, in step of 5) LGi7-72HTD-xxxM (xxx=585 to 625, in step of 5) LR7-72HVD-xxxM (xxx=625 to 660, in step of 5) xxx stands for rated output power at STC.

Parameters: Fire Safety Class: Class A or 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: Frameless or 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 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