

Hi-MO X6^{Max} Explorer

LR7-72HTH

605~615M

- Suitable for Distribution Market
- Simple design embodies modern style
- Highest efficiency with the best energy generation performance
- Better product warranty, better service



15-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

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

LONGi



22.8%
MAX MODULE
EFFICIENCY

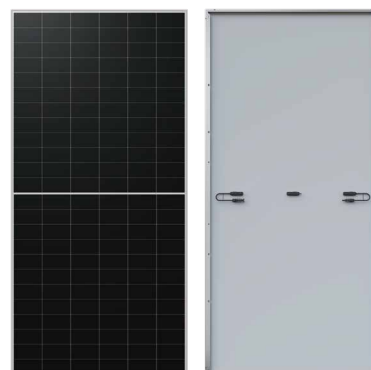
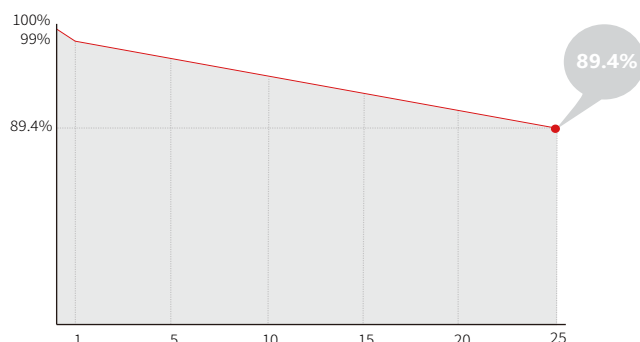
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

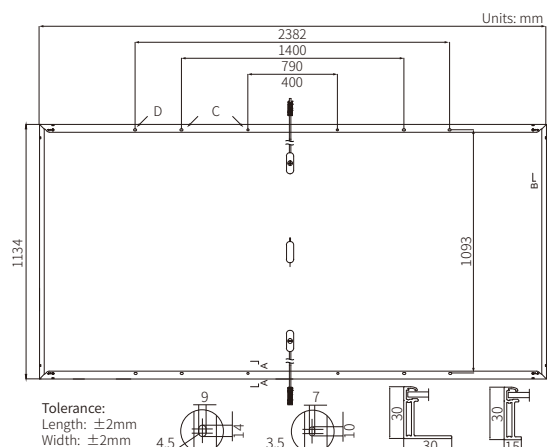
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	28.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC



Electrical Characteristics

STC: AM1.5 1000W/m² 25°C

NOCT: AM1.5 800W/m² 20°C 1m/s

Test uncertainty for Pmax: ±3%

Module Type	LR7-72HTH-605M		LR7-72HTH-610M		LR7-72HTH-615M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	605	452.1	610	455.9	615	459.6
Open Circuit Voltage (Voc/V)	52.27	49.17	52.42	49.22	52.57	49.36
Short Circuit Current (Isc/A)	14.74	11.91	14.80	11.95	14.87	12.01
Voltage at Maximum Power (Vmp/V)	44.03	40.18	44.18	40.32	44.33	40.46
Current at Maximum Power (Imp/A)	13.75	11.26	13.81	11.31	13.88	11.36
Module Efficiency(%)	22.4		22.6		22.8	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	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	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C



Product Service

CERTIFICATE

No. Z2 099333 0111 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

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.: 704062401243-02

Valid until: 2029-08-15

Date, 2024-08-16

(Zhulin Zhang)

CERTIFICATE

No. Z2 099333 0111 Rev. 02

Model(s):

LR5-72HTH-xxxM (xxx=540-600, in step of 5, 144 cells)
 LR5-66HTH-xxxM (xxx=490-550, in step of 5, 132 cells)
 LR5-54HTH-xxxM (xxx=405-450, in step of 5, 108 cells)
 LR5-54HTB-xxxM (xxx=405-445, in step of 5, 108 cells)
 LR5-72HTHF-xxxM (xxx=540-600, in step of 5, 144 cells)
 LR5-72HPH-xxxM (xxx=525-575, in step of 5, 144 cells)
 LR5-66HPH-xxxM (xxx=480-530, in step of 5, 132 cells)
 LR5-60HPH-xxxM (xxx=435-480, in step of 5, 120 cells)
 LR5-54HPH-xxxM (xxx=400-435, in step of 5, 108 cells)
 LR5-72HIH-xxxM (xxx=525-575, in step of 5, 144 cells)
 LR5-66HIH-xxxM (xxx=480-530, in step of 5, 132 cells)
 LR5-60HIH-xxxM (xxx=435-480, in step of 5, 120 cells)
 LR5-54HIH-xxxM (xxx=400-435, in step of 5, 108 cells)
 LR7-72HTH-xxxM (xxx=590-635, in step of 5, 144 cells)
 LR7-54HTH-xxxM (xxx=445-475, in step of 5, 108 cells)
 LR5-36HTH-xxxM (xxx=260-290, in step of 5, 72 cells)
 LR7-60HTH-xxxM (xxx=495-525, in step of 5, 120 cells)
 LR7-66HTH-xxxM (xxx=550-580, in step of 5, 132 cells)
 LR5-54HTHB-xxxM (xxx=400-420, in step of 5, 108 cells)
 LR7-54HTHF-xxxM (xxx=445-475 in step of 5, 108 cells)
 LR7-72HTHF-xxxM (xxx=590-635 in step of 5, 144 cells)
 LR7-60HTHF-xxxM (xxx=495-525 in step of 5, 120 cells)
 LR7-66HTHF-xxxM (xxx=550-580 in step of 5, 132 cells)
 xxx stands 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:	China Telecommunication Technology Labs. CuiHu Cloud Center, No.1 Gaolizhang Road, Wenquan Town Haidian District, Beijing, China.
Construction:	Framed, with Junction box, cable and connector.

Tested according to:

IEC 61215-1:2021
 IEC 61215-1-1:2021
 IEC 61215-2:2021
 IEC 61730-1:2023
 IEC 61730-2:2023
 EN IEC 61215-1-1:2021
 EN IEC 61215-1:2021
 EN IEC 61215-2:2021
 EN IEC 61730-1:2018
 EN IEC 61730-2:2018

CE Declaration of Conformity

Manufacturer: LONGi Solar Technology Co., Ltd.
Address: No.8369 Shangyuan Road, 710018 Xi'an City, Shaanxi, PRC
Product: Photovoltaic (PV) Module
Brand: LONGi
Model(s):

- LR5-54 ZZZ XXX M LR5-66 ZZZ XXX M LR5-72 ZZZ XXX M
- LR7-54 ZZZ XXX M LR7-60 ZZZ XXX M LR7-72 ZZZ XXX M

ZZZ stands for module type (HPH, HPB, HTH, HTHF, HTB, HTD, HBD, HGD, HTDB, HTDR)
XXX indicates module nameplate power in Watt.

LONGi Solar Technologie GmbH herewith confirms that its PV modules comply with the requirements set out in the European Union Directive 2014/35/EU (Low Voltage Directive – LVD) for the electrical equipment used in certain voltage limits. For the evaluation of the conformance with these Directives, the following IEC standards were applied:

- IEC 61215-1:2016 (Terrestrial PV modules - Design qualification and type approval)
- IEC 61730-1:2016 (Photovoltaic (PV) module safety qualification)

based on: report 704061700516-X issued by TÜV Süd for 1.500 V monofacial products
report 704061802022-X issued by TÜV Süd for 1.000 V monofacial products
report 704061700509-X issued by TÜV Süd for 1.500 V bifacial products

Responsible for making this declaration is the manufacturer and/or it's authorized representative within the European Union (LONGi Solar Technologie GmbH).

Europe Service Department
i.A.



Director of Europe Service Department
June 14th, 2024

