

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

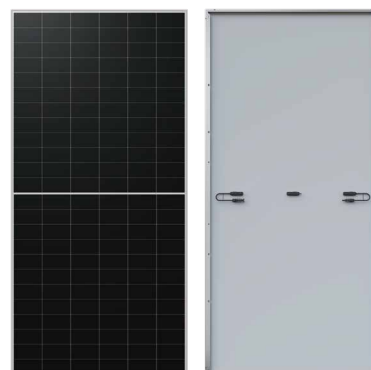
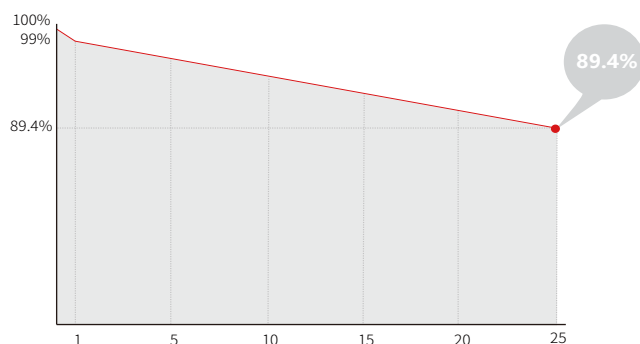
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

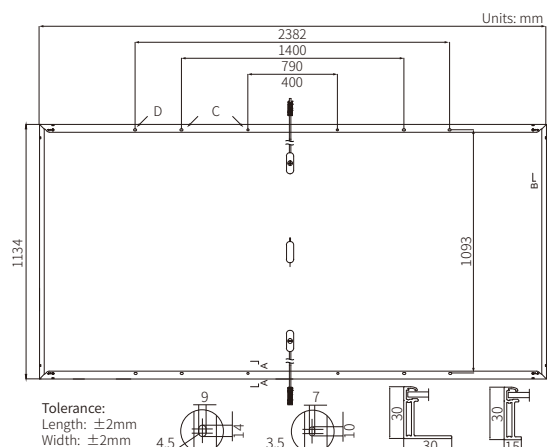
Additional Value

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



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00122Q35122R2M-8/6100

We hereby certify that

LONGi Solar Technology (Xianyang) Co., Ltd.

Unified Social Credit Code: 91610402MA6XW7KY7G

Registration/Operation Address: No.120, Wenxing West Road, Qindu District, Xianyang City,
Shaanxi Province, P.R.China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
GB/T 19001-2016 / ISO 9001:2015
The Quality Management System Applies in the following area:

Production of Crystalline Silicon Photovoltaic Module

Certified since: July 15, 2016 Valid from: July 12, 2022 Valid until: July 14, 2025

a statement saying : the validity of this certificate depends on the validity of the main certificate
After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.
This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's
Republic of China (www.cnca.gov.cn).



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管理体系
MANAGEMENT SYSTEM
CNAS C001-M

谢肇煦
Signed by: Xie ZhaoXu



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
<http://www.cqc.com.cn>

A 0069510

2021年版



副本

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00122E32234R2L/6100

We hereby certify that
**LONGi Solar Technology Co., Ltd. (This Main Certificate
Contains 11 Subsidiary Certificates)**

Registration Address: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District,
Xi'an City, Shaanxi Province, P.R.China (Subsidiary Information refer to Appendix Certificate)

Operation Address 1: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District,
Xi'an City, Shaanxi Province, P.R.China

Operation Address 2: No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China

Production Address 1: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District,
Xi'an City, Shaanxi Province, P.R.China

Production Address 2: No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China

by reason of its
Environmental Management System
has been awarded this certificate for compliance with the standard
GB/T 24001-2016 / ISO 14001:2015

The Environmental Management System Applies in the following area:

Design, Production and Related Management Activities of Crystalline Silicon Photovoltaic Cells and
Modules (Subsidiary Information refer to Appendix Certificate)

Certified since: July 18, 2016 Valid from: July 13, 2022 Valid until: July 17, 2025

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's
Republic of China (www.cnca.gov.cn).



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Signed by: Xie ZhaoXu



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

<http://www.cqc.com.cn>

A 0070075

2021年版



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00122E32234R2L/6100

**LONGi Solar Technology Co., Ltd. (This Main Certificate
Contains 11 Subsidiary Certificates)
(Attachment)**

No.	Company Name	Registered Address	Operations Address /Production address	Scope
0	LONGi Solar Technology Co.,Ltd.	No.8369,Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District, Xi'an City, Shaanxi Province, P.R.China	Operations Address /Production Address 1: No.8369,Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District, Xi'an City, Shaanxi Province, P.R.China Operations Address /Production Address 2: No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China	Design, Production and After-sales Service of Crystalline Silicon Photovoltaic Cells and Modules and Related Management Activities
1	LONGi Solar Technology (Zhejiang) Co., Ltd.	No.2 ,Bailing Middle Road , Donggang Industrial Functional Zone, Economic Development Zone, Qujiang District, Quzhou City, Zhejiang Province, P.R.China	Operations Address: No.2, Bailing Middle Road, Donggang Industrial Functional Zone, Economic Development Zone, Qujiang District, Quzhou City, Zhejiang Province, P.R.China Production Address: No.46, Donggang 2nd Road, Donggang Industrial Functional Zone, Economic Development Zone, Qujiang District, Quzhou City, Zhejiang Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
2	LONGi Solar Technology (Taizhou) Co., Ltd.	No.268, Xintai South Road, Hailing District, Taizhou City, Jiangsu Province, P.R.China	No.268, Xintai South Road, Hailing District, Taizhou City, Jiangsu Province, P.R.China	Production of Crystalline Silicon Photovoltaic Cell and Related Management Activities
3	LONGi Solar Technology (Xi'an) Co., Ltd.	Room 207, 2nd floor, Staff Restaurant, No.388, Aerospace Middle Road, National Civil Aerospace Industry Base, Xi'an City, Shaanxi Province, P.R.China	No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China	Production of Crystalline Silicon Photovoltaic Cell and Related Management Activities
4	LONGi Solar Technology (Shaanxi) Co., Ltd.	No.19, West Section of Jinghuan North Road, Jingweixincheng, Xi'an Economic and Technological Development Zone, Xi'an City, Shaanxi Province, China	No.19, West Section of Jinghuan North Road, Xi'an Economic and Technological Development Zone, Xi'an City, Shaanxi Province, China	Production of Crystalline Silicon Photovoltaic Cell and Related Management Activities
5	LONGi Solar Technology (Chuzhou) Co., Ltd.	No.19, Huai'an Road, Nanqiao District, Chuzhou City, Anhui Province, P.R.China	No.19, Huai'an Road, Nanqiao District, Chuzhou City, Anhui Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
6	LONGi Solar Technology (Datong) Co., Ltd.	Room 106B, North Zone, Enterprise Incubation Service Center, Xinrong Economic and Technological Development Zone, Huayuantun Country, Xinrong District, Datong City, Shanxi Province, P.R.China	Xinrong Economic and Technological Development Zone, Huayuantun Country, Xinrong District, Datong City, Shanxi Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
7	LONGi Solar Technology (Ningxia) Co., Ltd.	No.115, Hongtu South Street, Xixia District, Economic & Technological Development Zone, Yinchuan City, Ningxia Hui Autonomous Province, P.R.China	No.115, Hongtu South Street, Xixia District, Economic & Technological Development Zone, Yinchuan City, Ningxia Hui Autonomous Province, P.R.China	Production of Crystalline Silicon Photovoltaic Cell and Related Management Activities
8	LONGi Solar Technology (Xianyang) Co., Ltd.	No.120 Wenxing West Road, Qindu District, Xianyang City, Shaanxi Province, P.R.China	No.120 Wenxing West Road, Qindu District, Xianyang City, Shaanxi Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
9	LONGi Solar Technology (Jiangsu) Co., Ltd.	No.288, Yaojia Road, Jiulong Town, Hailing District, Taizhou City, Jiangsu Province, P.R.China	No.288, Yaojia Road, Jiulong Town, Hailing District, Taizhou City, Jiangsu Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
10	LONGi Solar Technology (Jiaxing) Co., Ltd.	No.130, Ruifeng Street, Gaozhao Subdistrict, Xiuzhou District, Jiaxing City, Zhejiang Province, P.R.China	No.130, Ruifeng Street, Gaozhao Subdistrict, Xiuzhou District, Jiaxing City, Zhejiang Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities
11	LONGi Solar Technology (Taizhou) Co., Ltd.	No.8, Taikang Road, Hailing District, Taizhou City, Jiangsu Province, P.R.China	No.8, Taikang Road, Hailing District, Taizhou City, Jiangsu Province, P.R.China	Production of Crystalline Silicon Photovoltaic Module and Related Management Activities



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Signed by: Xie ZhaoXu



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070, China

<http://www.cqc.com.cn>



CQC has issued an IQNet recognized certificate that the organization:

LONGi Solar Technology Co., Ltd. (This Main Certificate Contains 11 Subsidiary Certificates)

Registration Address: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District, Xi'an City, Shaanxi Province, P.R.China (Subsidiary Information refer to Appendix Certificate)

Operation Address 1: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District, Xi'an City, Shaanxi Province, P.R.China

Operation Address 2: No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China

Production Address 1: No.8369, Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone, Weiyang District, Xi'an City, Shaanxi Province, P.R.China

Production Address 2: No.1, Tianhe Second Road, Xi'an National Civil Aerospace Industrial Base, Shaanxi Province, P.R.China

has implemented and maintains an
Environmental Management System

for the following scope:

Design, Production and Related Management Activities of Crystalline Silicon Photovoltaic Cells and Modules (Subsidiary Information refer to Appendix Certificate)

which fulfils the requirements of the following standard:

GB/T 24001-2016 / ISO 14001:2015

Issued on: July 13, 2022

Expires on: July 17, 2025

Registration Number: CN00122E32234R2L/6100

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document



Alex Stoichitoiu
President of IQNet

Xie ZhaoXu
President of CQC



IQNet Partners*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland
NYCE-SIGE México PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia
SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00122S31771R2M-2/6100

We hereby certify that

LONGi Solar Technology (Taizhou) Co., Ltd.

Registration/Operation Address: No.268, Xintai South Road, Hailing District, Taizhou City, Jiangsu Province,
P.R.China

has been awarded this certificate for compliance with the standard

GB/T 45001-2020 / ISO45001:2018

The Occupational Health and Safety Management applies in the following area:

Production of Crystalline Silicon Photovoltaic Cell and Related Management Activities

Certified since: July 18, 2016 Valid from: July 13, 2022 Valid until: July 17, 2025

a statement saying : the validity of this certificate depends on the validity of the main certificate

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.

Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's
Republic of China (www.cnca.gov.cn).



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谢肇煦

Signed by: Xie ZhaoXu



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

<http://www.cqc.com.cn>

A 0070060

2021年版



China

CERTIFICATE

No. M 002875 0002 Rev. 05

Certified Organization:

LONGi Solar Technology Co., Ltd.
8369 Shangyuan Road
Caotan Eco-Industrial Park
Economic & Technological Development Zone
710018 Xi'an City, Shaanxi Province
PEOPLE'S REPUBLIC OF CHINA

Certified according to:

IEC 62941:2019

Certification Mark:



Certification Scope:

Design and Sales of PV Module

Order Number:

7482323573

Proof has been furnished that the requirements of IEC 62941 are fulfilled. The certification also covers the following sub-site information, as shown in the attached page. The certified organization shall undergo and pass the regular surveillance audit to maintain the validity of this certificate.

Valid from:

2023-03-31

Valid until:

2026-03-30

Issue Date, 2023-04-13

Wang Xiaolu

(Xiaolu Wang)

No. M 002875 0002 Rev. 05

LONGi Solar Technology Co., Ltd.

8369 Shangyuan Road, Caotan Eco-Industrial Park, Economic &
Technological Development Zone, 710018 Xi'an City, Shaanxi
Province, PEOPLE'S REPUBLIC OF CHINA

Enclosure:

Sites	Scope of Application
LONGi Solar Technology Co., Ltd. 8369 Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone Xi'an City, Shaanxi Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 710018	Design and Sales of PV Module
LONGi Solar Technology Co., Ltd. (Xi'an Module Factory) 8369 Shangyuan Road, Caotan Eco-Industrial Park, Economic & Technological Development Zone Xi'an City, Shaanxi Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 710018	Manufacture of PV Module
LONGi Solar Technology (Chuzhou) Co., Ltd. No. 19 Huaian Road, Nanqiao District Chuzhou City, Anhui Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 239000	Manufacture of PV Module
LONGi Solar Technology (Zhejiang) Co., Ltd. No. 2, Bailing Middle Road, Donggang Industrial Functional Zone, Quzhou Economic Development Zone, Qujiang District Quzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 324005	Manufacture of PV Module
LONGi Photovoltaic Technology (Taizhou) Co., Ltd. No. 8, Taikang Road, Hailing District Taizhou City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 225300	Manufacture of PV Module
LONGi Solar Technology (Xianyang) Co., Ltd. No. 120, Wenxing West Road, Qindu District Xianyang City, Shaanxi Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 712000	Manufacture of PV Module
LONGi Solar Technology (Jiangsu) Co., Ltd. No. 288 Yaojia Road, Jiulong Town, Hailing District Taizhou City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 225300	Manufacture of PV Module
LONGi Solar Technology (Jiaxing) Co., Ltd. No. 130 Ruifeng Street, Gaozhao Subdistrict, Xiuzhou District Jiaxing City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 314031	Manufacture of PV Module
VINA SOLAR TECHNOLOGY COMPANY LIMITED Workshop E12, Lot CN-03, Van Trung Industrial Zone, Van Trung Commune, Viet Yen District Bac Giang Province, Vietnam Zip Code: 21000	Manufacture of PV Module
LONGi Solar Technology (Datong) Co., Ltd. Xinrong Economic and Technological Development Zone, Huayuantun Town, Xinrong District Datong City, Shanxi Province, PEOPLE'S REPUBLIC OF CHINA Zip Code: 037002	Manufacture of PV Module



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

Hi-MO X6 Explorer

LR5-72HTH 565~585M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



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



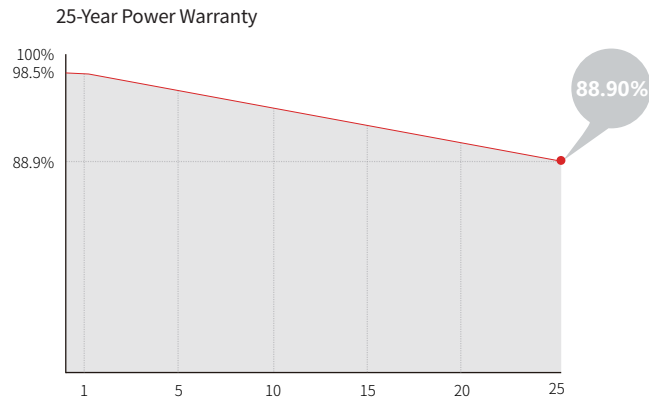
22.6%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

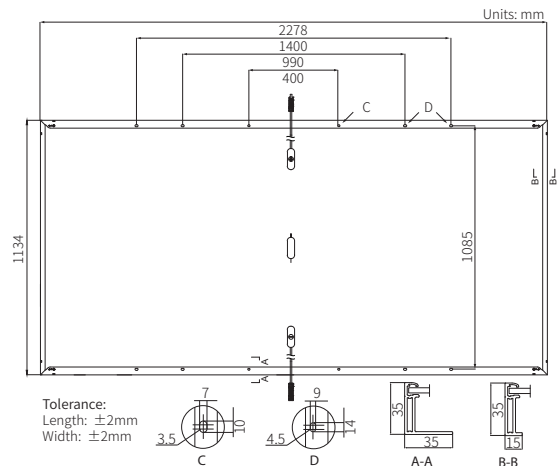
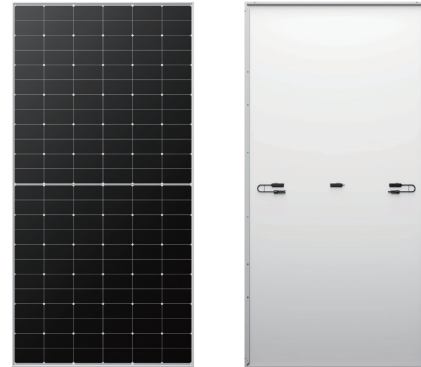
0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



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	27.5kg
Dimension	2278×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 620pcs per 40' HC



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for P_{max}: ±3%

Module Type	LR5-72HTH-565M		LR5-72HTH-570M		LR5-72HTH-575M		LR5-72HTH-580M		LR5-72HTH-585M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	565	422	570	426	575	430	580	433	585	437
Open Circuit Voltage (V _{oc} /V)	51.76	48.60	51.91	48.74	52.06	48.88	52.21	49.02	52.36	49.16
Short Circuit Current (I _{sc} /A)	14.01	11.31	14.07	11.36	14.14	11.42	14.20	11.47	14.27	11.52
Voltage at Maximum Power (V _{mp} /V)	43.61	39.79	43.76	39.93	43.91	40.07	44.06	40.20	44.21	40.34
Current at Maximum Power (I _{mp} /A)	12.96	10.61	13.03	10.68	13.10	10.73	13.17	10.78	13.24	10.84
Module Efficiency(%)	21.9		22.1		22.3		22.5		22.6	

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	UL Type 1 or 2 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 I _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.230%/°C
Temperature Coefficient of P _{max}	-0.290%/°C



Product Service

CERTIFICATE

No. Z2 099333 0045 Rev. 21

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061700516-21

Valid until: 2027-06-30

Date, 2022-07-01

(Zhulin Zhang)

CERTIFICATE

No. Z2 099333 0045 Rev. 21

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)
 LR4-72HPH-xxxM, (xxx=420-465 in step of 5)
 LR4-72HIH-xxxM, (xxx=420-465 in step of 5)
 LR4-60HPH-xxxM, (xxx=350-380 in step of 5)
 LR4-60HIH-xxxM, (xxx=350-380 in step of 5)
 LR4-72ZPH-xxxM, (xxx=420-435 in step of 5)
 LR4-60ZPH-xxxM, (xxx=350-365 in step of 5)
 LR6-60ZPH-xxxM, (xxx=330-355 in step of 5)
 LR4-78ZPH-xxxM, (xxx=455-485 in step of 5)
 LR5-72HPH-xxxM, (xxx=525-555 in step of 5)
 LR5-66HPH-xxxM, (xxx=480-505 in step of 5)
 LR4-66HPH-xxxM, (xxx=395-415 in step of 5)
 LR4-66HIH-xxxM, (xxx=395-415 in step of 5)
 LR5-72HIH-xxxM, (xxx=525-555 in step of 5)
 LR5-66HIH-xxxM, (xxx=480-505 in step of 5)
 LR5-78HPH-xxxM, (xxx=575-595 in step of 5)
 LR5-78ZPH-xxxM, (xxx=565-585, in step of 5)
 LR4-50HPH-xxxM, (xxx=305-320, in step of 5)
 LR4-66HTB-xxxM, (xxx=410-430 in step of 5)
 LR4-60HTB-xxxM, (xxx=370-390 in step of 5)
 LR5-54HPH-xxxM, (xxx=395-415 in step of 5)
 LR4-66HTH-xxxM, (xxx=420-440 in step of 5)
 LR4-60HTH-xxxM, (xxx=380-400 in step of 5)
 LR5-54HIH-xxxM, (xxx=395-415 in step of 5)
 LR5-72HTH-xxxM, (xxx=555-600 in step of 5)
 LR5-54HTH-xxxM, (xxx=420-450 in step of 5)
 LR5-54HTB-xxxM, (xxx=410-440 in step of 5)
 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:	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

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

