

Hi-MO 6

Explorer

LR5-54HTH 415~430M

- Suitable for distributed projects
- Excellent outdoor power generation performance
- High module quality ensures 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



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Technology Innovations
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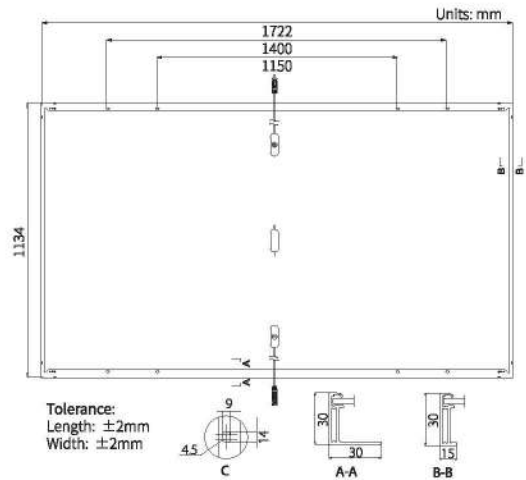
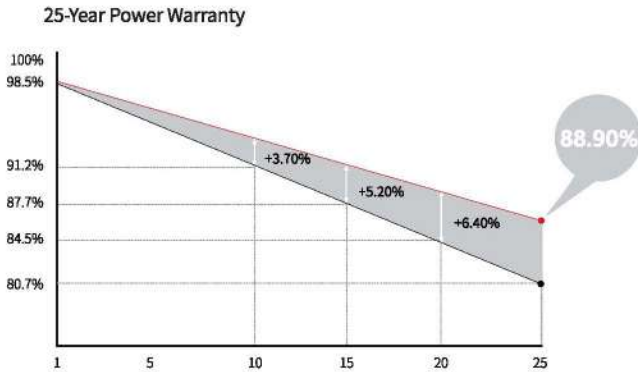
22.0%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , ± 1200 mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722 × 1134 × 30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 936pcs 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}: $\pm 3\%$

Module Type	LR5-54HTH-415M		LR5-54HTH-420M		LR5-54HTH-425M		LR5-54HTH-430M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	415	310	420	314	425	318	430	321
Open Circuit Voltage (V _{oc} /V)	38.53	36.18	38.73	36.36	38.93	36.55	39.13	36.74
Short Circuit Current (I _{sc} /A)	13.92	11.24	14.00	11.31	14.07	11.36	14.15	11.43
Voltage at Maximum Power (V _{mp} /V)	32.24	29.42	32.44	29.60	32.64	29.78	32.84	29.97
Current at Maximum Power (I _{mp} /A)	12.88	10.54	12.95	10.60	13.03	10.67	13.10	10.72
Module Efficiency(%)	21.3		21.5		21.8		22.0	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
V _{oc} and I _{sc} Tolerance	$\pm 3\%$
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. 23

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.: 704061700516-23

Valid until: 2027-09-07

Date, 2022-09-08

(Zhulin Zhang)

CERTIFICATE

No. Z2 099333 0045 Rev. 23

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)
 LR6-72PH-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=525-575 in step of 5)
 LR5-66HPH-xxxM, (xxx=480-530 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=525-575 in step of 5)
 LR5-66HIH-xxxM, (xxx=480-530 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=395-435 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=395-435 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)
 LR5-60HPH-xxxM, (xxx=435-480 in step of 5)
 LR5-60HIH-xxxM, (xxx=435-480 in step of 5)
 LR5A-54HAH-xxxM, (xxx=425-445 in step of 5)
 LR5B-60HAH-xxxM, (xxx=425-445 in step of 5)
 xxx stands for rated output power at STC



CERTIFICATE

No. Z2 099333 0045 Rev. 23

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