

Hi-MO X6^{Max} Scientist

LR7-54HTH 470~475M

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



25-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



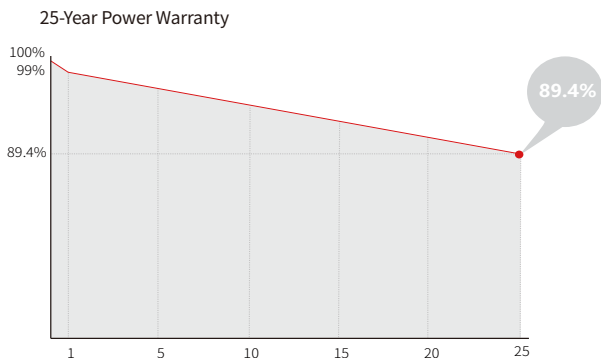
23.3%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

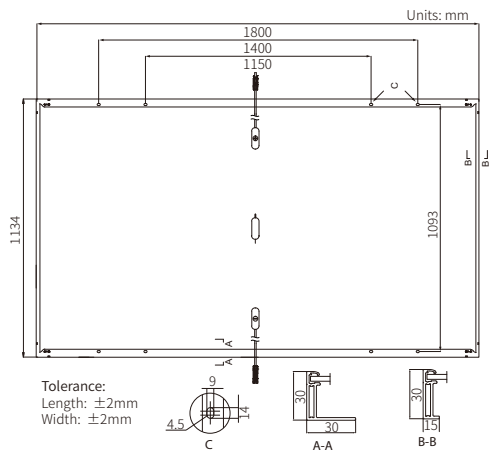
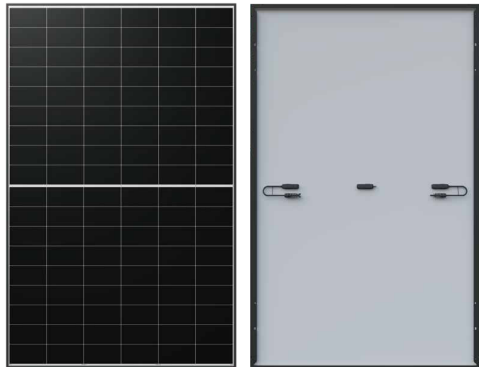
0.40%
YEAR 2-25
POWER DEGRADATION

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , ±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.6kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs 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	LR7-54HTH-470M		LR7-54HTH-475M	
	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	470	351.2	475	354.9
Open Circuit Voltage (V _{oc} /V)	39.75	37.32	39.95	37.51
Short Circuit Current (I _{sc} /A)	15.00	12.12	15.07	12.17
Voltage at Maximum Power (V _{mp} /V)	33.59	30.65	33.79	30.83
Current at Maximum Power (I _{mp} /A)	13.99	11.45	14.06	11.51
Module Efficiency(%)	23.0		23.3	

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 I _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.230%/°C
Temperature Coefficient of P _{max}	-0.280%/°C