

# Hi-MO 6

Scientist

## LR5-54HTH 440~450M

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

**25** 25-year Warranty for  
Materials and Processing

**25** 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**



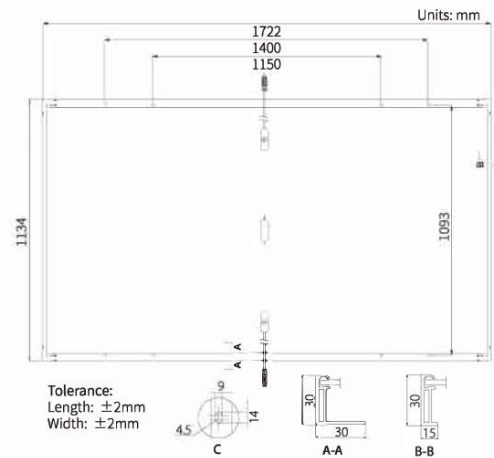
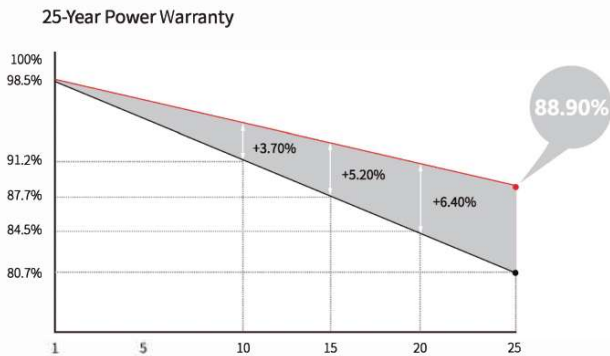
**23.0%**  
MAX MODULE  
EFFICIENCY

**±5W**  
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 <sup>2</sup> , ±1200mm 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/m<sup>2</sup> 25°C

NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Test uncertainty for P<sub>max</sub>: ±3%

Module Type	LR5-54HTH-440M		LR5-54HTH-445M		LR5-54HTH-450M	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	440	329	445	332	450	336
Open Circuit Voltage (V <sub>oc</sub> /V)	39.53	37.11	39.73	37.30	39.93	37.49
Short Circuit Current (I <sub>sc</sub> /A)	14.30	11.55	14.37	11.61	14.45	11.67
Voltage at Maximum Power (V <sub>mp</sub> /V)	33.24	30.33	33.44	30.51	33.64	30.70
Current at Maximum Power (I <sub>mp</sub> /A)	13.24	10.85	13.31	10.90	13.38	10.95
Module Efficiency(%)	22.5		22.8		23.0	

## Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
V <sub>oc</sub> and I <sub>sc</sub> Tolerance	±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 <sub>sc</sub>	+0.050%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.230%/°C
Temperature Coefficient of P <sub>max</sub>	-0.290%/°C