

# Hi-MO X6 Scientist

LR5-54HTB

## 440~450M

- Suitable for Distribution Market
- Pure black for extreme elegance
- 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



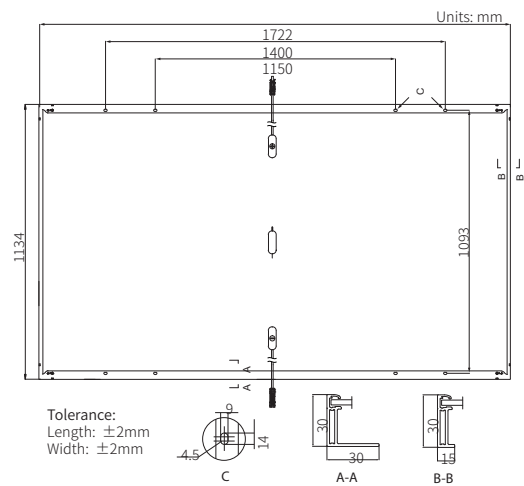
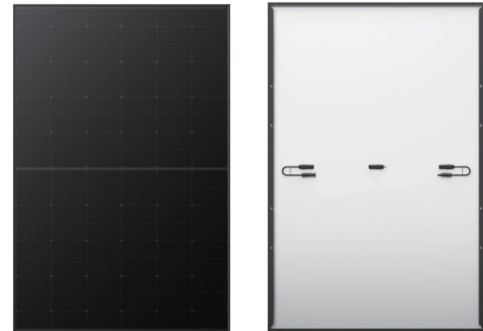
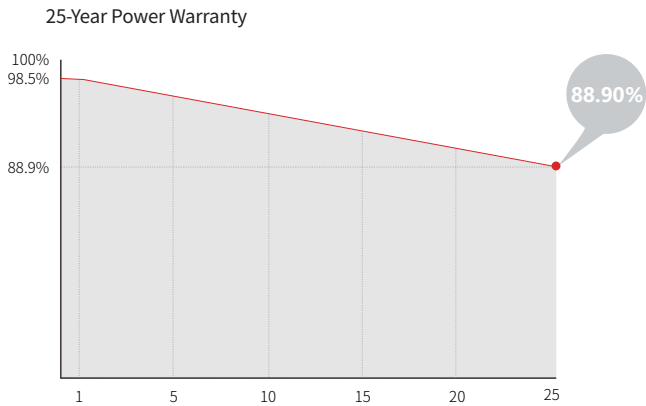
**23.0%**  
MAX MODULE  
EFFICIENCY

**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
Output Cable	4mm <sup>2</sup> , $\pm 1200$ 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/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>:  $\pm 3\%$

Module Type	LR5-54HTB-440M		LR5-54HTB-445M		LR5-54HTB-450M	
	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	440	329	445	333	450	337
Open Circuit Voltage (V <sub>oc</sub> /V)	39.83	37.40	40.03	37.58	40.23	37.77
Short Circuit Current (I <sub>sc</sub> /A)	14.15	11.43	14.23	11.49	14.31	11.55
Voltage at Maximum Power (V <sub>mp</sub> /V)	33.56	30.62	33.76	30.81	33.96	30.99
Current at Maximum Power (I <sub>mp</sub> /A)	13.12	10.75	13.19	10.82	13.27	10.88
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	$\pm 3\%$
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45 $\pm 2$ °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