Hi-MO 6 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











LR5-54HTB 440~450M

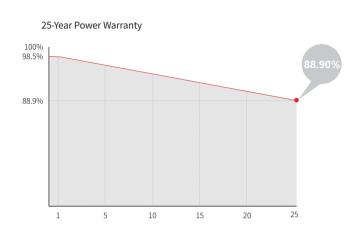
23.0%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5%
FIRST YEAR
POWER DEGRADATION

0.40% YEAR 2-25 POWER DEGRADATION

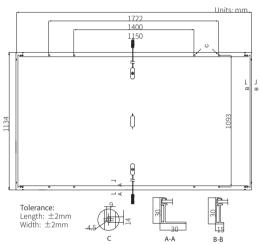
Additional Value



Mechanical Parameters 108 (6×18) Cell Orientation Junction Box IP68 4mm², ±1200mm Output Cable length can be customized Glass Single glass, 3.2mm coated tempered glass Frame Anodized aluminum alloy frame Weight 20.8kg 1722×1134×30mm Dimension Packaging 36pcs per pallet / 216pcs per 20' GP / 936pcs per 40' HC







Electrical Characteristics Module Type	STC : AM1.5 1000W/m ² 25°C LR5-54HTB-440M		NOCT : AM1.5 800W/m² 20°C 1m/s LR5-54HTB-445M		Test uncertainty for Pmax: ±3% LR5-54HTB-450M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	440	329	445	333	450	337
Open Circuit Voltage (Voc/V)	39.83	37.40	40.03	37.58	40.23	37.77
Short Circuit Current (Isc/A)	14.15	11.43	14.23	11.49	14.31	11.55
Voltage at Maximum Power (Vmp/V)	33.56	30.62	33.76	30.81	33.96	30.99
Current at Maximum Power (Imp/A)	13.12	10.75	13.19	10.82	13.27	10.88
Module Efficiency(%)	22.5		22.8		23.0	

Operating Parameters -40°C ~ +85°C Operational Temperature Power Output Tolerance 0 ~ 3% ±3% Voc and Isc Tolerance Maximum System Voltage DC1500V (IEC/UL) Maximum Series Fuse Rating 25A Nominal Operating Cell Temperature 45±2°C Protection Class Class II UL type 1 or 2 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)				



+0.050%/°C

-0.230%/°C

-0.290%/°C

Temperature Coefficient of Isc

Temperature Coefficient of Voc

Temperature Coefficient of Pmax