# 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-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









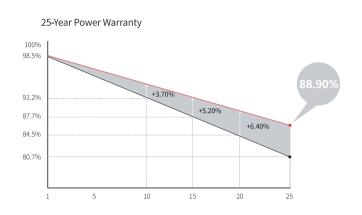


# LR5-54HTH 440~450M

23.0% MAX MODULE EFFICIENCY 0~3%
POWER
TOLERANCE

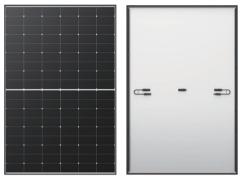
<1.5% FIRST YEAR POWER DEGRADATION 0.40% YEAR 2-25 POWER DEGRADATION

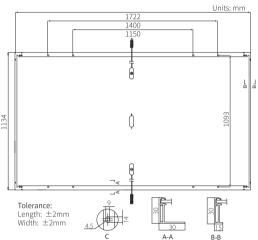
#### **Additional Value**



#### **Mechanical Parameters**

Cell Orientation	108 (6×18)			
Junction Box	IP68, three diodes			
Output Cable	$4\text{mm}^2$ , $\pm 1200\text{mm}$ 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			





<b>Electrical Characteristics</b>	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 Pmax: ±3%	
Module Type	LR5-54HTH-440M		LR5-54HTH-445M		LR5-54HTH-450M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	440	329	445	332	450	336
Open Circuit Voltage (Voc/V)	39.53	37.11	39.73	37.30	39.93	37.49
Short Circuit Current (Isc/A)	14.30	11.55	14.37	11.61	14.45	11.67
Voltage at Maximum Power (Vmp/V)	33.24	30.33	33.44	30.51	33.64	30.70
Current at Maximum Power (Imp/A)	13.24	10.85	13.31	10.90	13.38	10.95
Module Efficiency(%)	22.5		22.8		23	3.0

**Operating Parameters** 

Operational Temperature	-40°C ~ +85°C	
Power Output Tolerance	0 ~ 3%	
Voc and Isc 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 Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

