# Hi-MO KG 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





### Hi-MO K6 Scientist

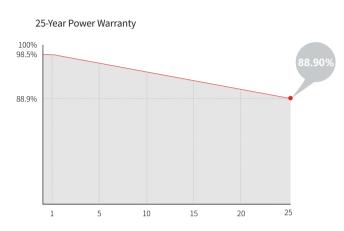
### LR5-54HTB 440~450M

23.0% MAX MODULE EFFICIENCY



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

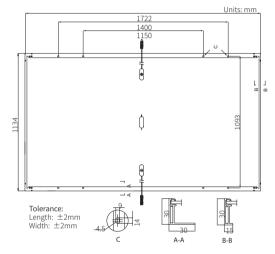
#### **Additional Value**



#### Mechanical Parameters

Cell Orientation	108 (6×18)		
Junction Box	IP68		
Output Cable	4mm², ±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		





<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	LR5-54HTB-440M		LR5-54HTB-445M		LR5-54H	ITB-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(%)	2	2.5	2	2.8	2	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



No.8369 Shangyuan Road, Xi'an Economic And Technological Development Zone, Xi'an, Shaanxi, China. **Web:** www.longi.com Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (20230926V19) **DG**