

# Hi-MO 6

Scientist

## LR5-54HTB 425~440M

- 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

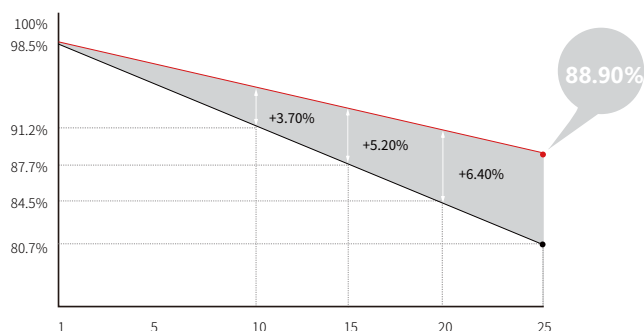
**0~3%**  
POWER  
TOLERANCE

**<1.5%**  
FIRST YEAR  
POWER DEGRADATION

**0.40%**  
YEAR 2-25  
POWER DEGRADATION

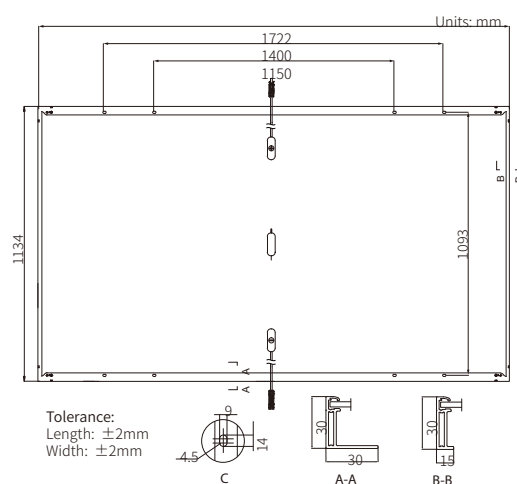
## Additional Value

25-Year Power Warranty



## Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
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	LR5-54HTB-425M		LR5-54HTB-430M		LR5-54HTB-435M		LR5-54HTB-440M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	425	318	430	321	435	325	440	329
Open Circuit Voltage (V <sub>oc</sub> /V)	39.23	36.84	39.43	37.02	39.63	37.21	39.83	37.40
Short Circuit Current (I <sub>sc</sub> /A)	13.93	11.25	14.00	11.31	14.08	11.37	14.15	11.43
Voltage at Maximum Power (V <sub>mp</sub> /V)	33.96	30.08	33.16	30.26	33.36	30.44	33.56	30.62
Current at Maximum Power (I <sub>mp</sub> /A)	12.90	10.56	12.97	10.62	13.05	10.68	13.12	10.75
Module Efficiency(%)	21.8		22.0		22.3		22.5	

## 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