

# Hi-MO **5m**

## LR5-54HIH 415~430M

- Suitable for distributed projects
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer
  - Integrated Segmented Ribbons
  - 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability



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



**22.0%**  
MAX MODULE  
EFFICIENCY

**-5W~+5W**  
POWER  
TOLERANCE

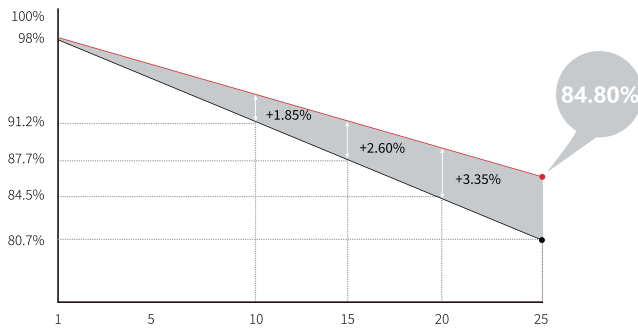
**<2%**  
FIRST YEAR  
POWER DEGRADATION

**0.55%**  
YEAR 2-25  
POWER DEGRADATION

**HALF-CELL**  
Lower operating temperature

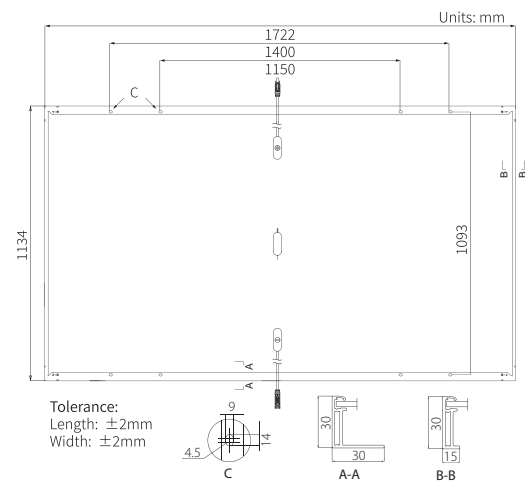
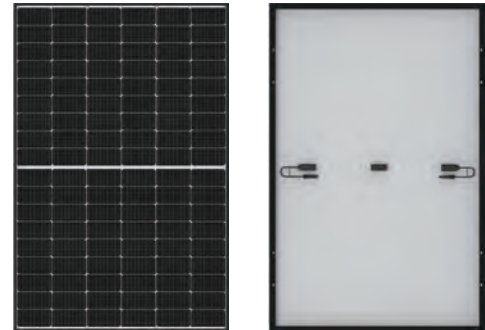
## Additional Value

### 25-Year Power Warranty



## Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> ± 1200mm
Connector	Staubli MC4 EVO2
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 Pmax: ±3%

Module Type	LR5-54HIH-415M		LR5-54HIH-420M		LR5-54HIH-425M		LR5-54HIH-430M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	310.2	420	313.9	425	317.7	430	321.4
Open Circuit Voltage (Voc/V)	37.50	35.26	37.75	35.49	37.96	35.69	38.17	35.89
Short Circuit Current (Isc/A)	13.94	11.27	14.01	11.32	14.08	11.38	14.15	11.44
Voltage at Maximum Power (Vmp/V)	31.49	29.25	31.73	29.47	31.94	29.67	32.14	29.86
Current at Maximum Power (Imp/A)	13.18	10.60	13.24	10.65	13.31	10.71	13.38	10.77
Module Efficiency(%)	21.3		21.5		21.8		22.0	

## Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	-5W~+5W
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	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C