

O Solceller

Hi-MO 5m

LR5-54HIH 400~420M

- 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

12 12-year Warranty for Materials and Processing

25 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
 TS62941: Guideline for module design qualification and type approval

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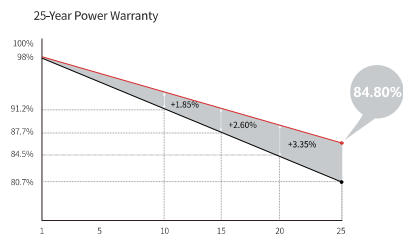


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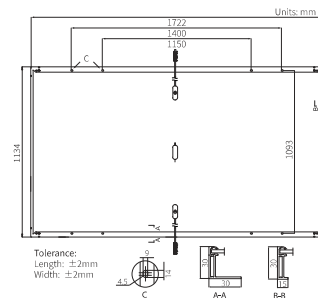
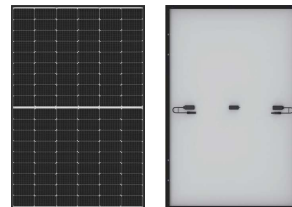
21.5%
MAX MODULE
EFFICIENCY**0~3%**
POWER
TOLERANCE**<2%**
FIRST YEAR
POWER DEGRADATION**0.55%**
YEAR 2-25
POWER DEGRADATION**HALF-CELL**
Lower operating temperature

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 1200mm
Connector	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 ² 25°C		NOCT: AM1.5 800W/m ² 20°C 1m/s		Test uncertainty for P _{max} ±3%	
Module Type		LR5-54HH-400M	LR5-54HH-405M	LR5-54HH-410M	LR5-54HH-415M	LR5-54HH-420M	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)		400	299.0	405	302.7	410	306.5
Open Circuit Voltage (V _{oc} /V)		36.75	34.55	37.00	34.79	37.25	35.02
Short Circuit Current (I _{sc} /A)		13.76	11.13	13.83	11.18	13.88	11.22
Voltage at Maximum Power (V _{mp} /V)		30.75	28.56	31.00	28.80	31.25	29.03
Current at Maximum Power (I _{mp} /A)		13.01	10.47	13.07	10.52	13.12	10.56
Module Efficiency(%)		20.5	20.7	21.0	21.3	21.5	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
V _{oc} and I _{sc} 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 _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.265%/°C
Temperature Coefficient of P _{max}	-0.340%/°C

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Specifications included in this datasheet
are subject to change without notice.
LONGi reserves the right of final
interpretation. (20220410PreliminaryV04)