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SOLARMODUL EINZELHANDEL UND GROßHANDEL

PRIVATER SOLARMODULBAU

INDUSTRIELLER SOLARMODULBAU



LONGI LR5-54HIH 405-415W
TECHNISCHE DATENBLATT

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

LONGi

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UNGARN 3527 MISKOLC, BESENYŐI STR. 24.
Zugänglichkeit über die Várközi Lajos-Straße.

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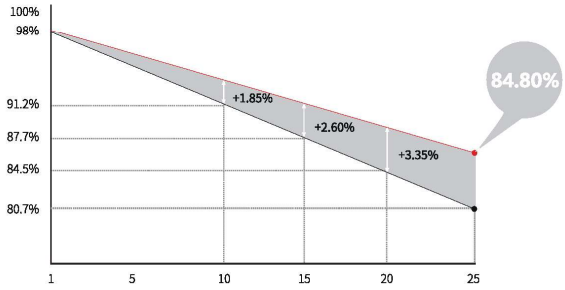
Hi-MO 5m

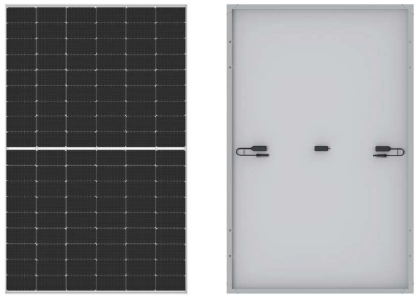
LR5-54HIH 400~420M

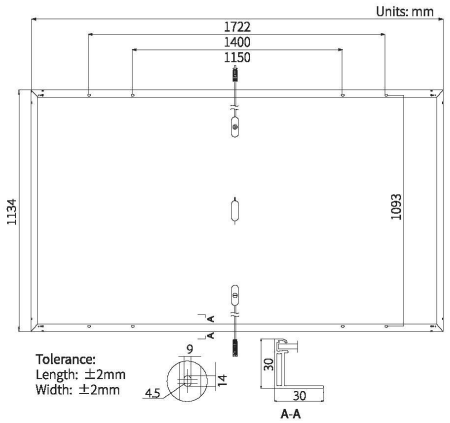
21.5%	0~3%	<2%	0.55%	HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION	Lower operating temperature

Additional Value

25-Year Power Warranty







Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.5kg
Dimension	1722×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 936pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR5-54HIH-400M		LR5-54HIH-405M		LR5-54HIH-410M		LR5-54HIH-415M		LR5-54HIH-420M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	400	299.0	405	302.7	410	306.5	415	310.2	420	313.9
Open Circuit Voltage (Voc/V)	36.75	34.55	37.00	34.79	37.25	35.02	37.50	35.26	37.75	35.49
Short Circuit Current (Isc/A)	13.76	11.13	13.83	11.18	13.88	11.22	13.94	11.27	14.01	11.32
Voltage at Maximum Power (Vmp/V)	30.75	28.56	31.00	28.80	31.25	29.03	31.49	29.25	31.73	29.47
Current at Maximum Power (Imp/A)	13.01	10.47	13.07	10.52	13.12	10.56	13.18	10.60	13.24	10.65
Module Efficiency(%)	20.5		20.7		21.1		21.3		21.5	

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	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C

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