

Hi-MO 5m
(G2)

LR5-66HIH
490~510M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- 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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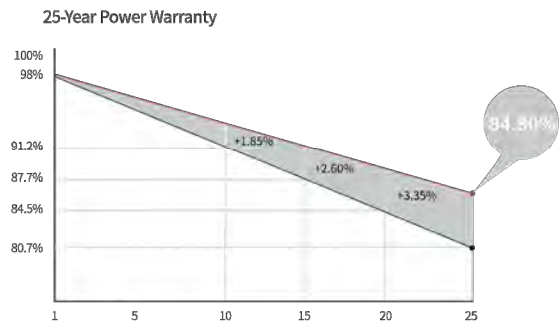


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Hi-MO 5m

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
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Additional Value



Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm length can be customized
Connector	LONGI LR5 or MC4 EVO2
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	25.3kg
Dimension	2093×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 682pcs 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	LR5-66HIH-490M				LR5-66HIH-495M				LR5-66HIH-505M				LR5-66HIH-510M			
Testing Condition	STC		NOCT		STC		NOCT		STC		NOCT		STC		NOCT	
Maximum Power (Pmax/W)	490		366.3		495		370.0		500		373.7		505		377.5	
Open Circuit Voltage (Voc/V)	45.25		42.55		45.40		42.69		45.55		42.83		45.70		42.97	
Short Circuit Current (Isc/A)	13.74		11.11		13.82		11.17		13.90		11.24		13.97		11.30	
Voltage at Maximum Power (Vmp/V)	38.08		35.37		38.23		35.51		38.38		35.65		38.53		35.79	
Current at Maximum Power (Imp/A)	12.87		10.35		12.95		10.42		13.03		10.48		13.11		10.55	
Module Efficiency(%)	20.6				20.9				21.1				21.3			

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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Specifications included in this datasheet
are subject to change without notice. LONGI
reserves the right of final interpretation.
(20220410PreliminaryV01) G2



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BUSINESS ESTATE
ANTHONY'S WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/09/2023
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

DOWNLEY DRIVE

SHEET NAME

SPECIFICATION
SHEET

SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

D.00