Hi-MO 7

LR8-54HGBB All Black

495~510W

N-type HPDC High Efficiency Bifacial Dual Glass Module

For Canadian Market

- Advanced HPDC cell technology delivers superior module efficiency up to 22.9%
- Lower temperature coefficient of Pmax: -0.28 %/ °C, more power production at higher ambient temperatures
- Anti-LID, anti-LeTID, and anti-PID with low power degradation
- Excellent low irradiance performance
- Weather resistant and certified to withstand rain, hail, wind, and snow
- LONGi Lifecycle Quality ensures high product quality and long-term performance

30-year
Warranty for Extra Linear Power Output

25-year
Warranty for Materials and Processing

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

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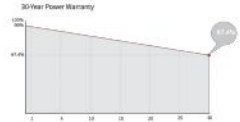
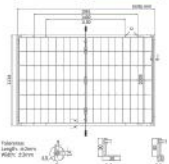
LR8-54HGBB 495~510W

22.9%	0~3%	<1%	0.4%	HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2~30 POWER DEGRADATION	Lower operating temperature

Additional Value

30-Year Power Warranty





Tolerances:
Length: ±2mm
Width: 2.5mm

Mechanical Parameters

Cell Orientation	108 (6 × 18)
Junction Box	IP68
Output Cable	4mm², (-)400, (+)400mm/(-)1200mm; length can be customized
Glass	Dual glass, 1.6+2.0mm heat strengthened glass
Frame	Anodized aluminium alloy frame
Weight	28kg
Dimension	1961 × 1134 × 30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 864pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Measurement tolerance: ±3%

Model Type	LR8-54HGBB-495M		LR8-54HGBB-500M		LR8-54HGBB-505M		LR8-54HGBB-510M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax/W)	495	377	500	380	505	385	510	390
Open Circuit Voltage (Voc/V)	39.42	37.47	39.58	37.62	39.73	37.76	39.91	37.93
Short Circuit Current (Isc/A)	15.96	12.77	15.99	12.81	16.00	12.85	16.05	12.88
Voltage at Maximum Power (Vmp/V)	32.98	31.34	33.14	31.48	33.31	31.66	33.47	31.80
Current at Maximum Power (Imp/A)	15.01	12.02	15.08	12.08	15.16	12.16	15.24	12.14
Module Efficiency (%)	20.3		20.5		20.7		20.9	

Electrical characteristics with different rear side power gain (reference to 500W front)

Pmax/W	Isc/A	Voc/V	Imp/A	Vmp/V	Power gain
525	19.68	39.75	15.14	15.64	5%
550	19.68	39.94	15.14	16.08	10%
575	19.68	39.94	15.14	16.52	15%
600	19.68	39.94	15.14	16.95	20%
625	19.68	39.94	15.14	16.95	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	φ Pmax: 80 ± 10% (φ Isc; φ Voc; φ Imp): 70 ± 5%
Fire Rating	UL Type 29 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading (e.g. snow, wind)	5400Pa
Rear Side Maximum Static Loading (e.g. wind)	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.280%/°C

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