Hi-MO 7

LR8-48HGD

440M

- Advanced HPDC cell technology delivers superior module efficiency and power
- High bifaciality and excellent power temperature coefficient achieves high energy yield
- LONGi lifecycle quality ensures long-term performance



25 25-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output (STC condition)

Complete System and Product Certifications

IEC 61215, IEC 61730 （TUV SUD）

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

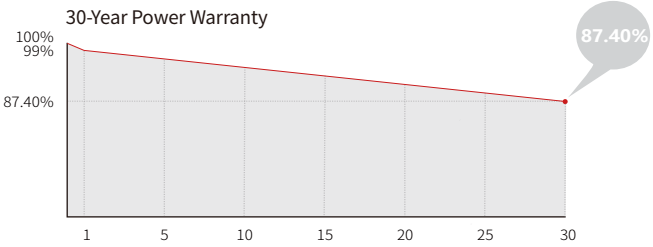
LONGi

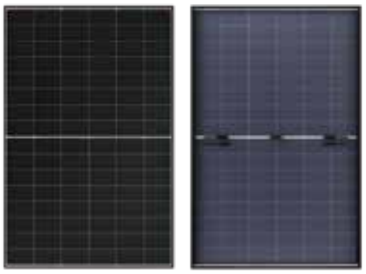
Hi-MO 7

LR8-48HGD 430~455M

22.0%	0~3%	<1%	0.4%	HALF-CELL
MODULE EFFICIENCY	POWER BINNING TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

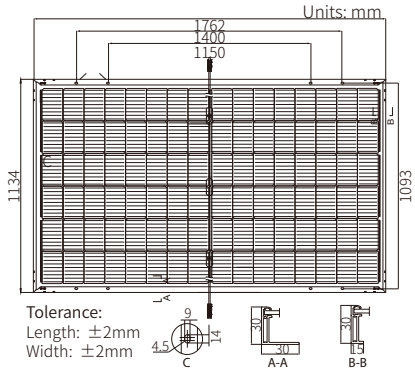
Additional Value





Mechanical Parameters

Cell Orientation	96 (6×16)
Junction Box	IP68, three diodes
Output Cable	4mm2, +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+1.6mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	23.0kg
Dimension	1762×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs per 40' HC
Connector	PV-LR5(Longi) PV-KST4-EVO2A/xy_UR, PV-KBT4-EVO2A/xy_UR(Staubli)



Electrical Characteristics

STC : AM1.5 1000W/m² 25℃ NOCT : AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax: ±3% Voc& Isc: ±5%

Module Type	LR8-48HGD-440M	
Testing Condition	STC	NOCT
Maximum Power (Pmax/W)	440	334.90
Open Circuit Voltage (Voc/V)	35.05	33.30
Short Circuit Current (Isc/A)	15.91	12.78
Voltage at Maximum Power (Vmp/V)	29.34	27.88
Current at Maximum Power (Imp/A)	15.00	12.01
Module Efficiency(%)	22.0	

Electrical Characteristics

BNPI : Irradiance:friont 1000W/m² rear 135W/m² Temperature 25℃ AM=1.5

Module Type	LR8-48HGD-440M
Testing Condition	BNPI
Maximum Power (Pmax/W)	488
Open Circuit Voltage (Voc/V)	35.05
Short Circuit Current (Isc/A)	17.63
Voltage at Maximum Power (Vmp/V)	29.34
Current at Maximum Power (Imp/A)	16.62
Module Efficiency(%)	24.4

Operating Parameters

Operational Temperature	-40℃ ~ +70℃
Power binning Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	35A
Nominal Operating Cell Temperature	45±2℃
Protection Class	Class II
Bifaciality	ϕPmax: 80±5% ϕVoc: 98±5% ϕIsc: 80±5%
Fire Rating	UL type 29 IEC Class C
Power Measurement Tolerance:	±3%

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	+0.045%/℃
Temperature Coefficient of Voc	-0.230%/℃
Temperature Coefficient of Pmax	-0.280%/℃

LONGi

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