

Hi-MO X10 Guardian Light Design

LR7-60HVHL 535~560M

- Adapted for Low Load-Bearing Capacity Scenarios.
- Lighter Weight: Up to 42% weight reduction compared to conventional modules.
- Higher Power Generation: HPBC 2.0 high-efficiency technology.
- Enhanced Reliability: High mechanical loading.
- Faster Installation: No roof reinforcement required.

15

15-year Warranty for
Materials and Processing

30

30-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 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

LONGI



24.8%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

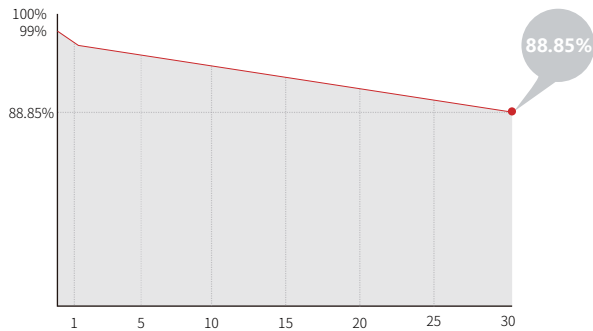
<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

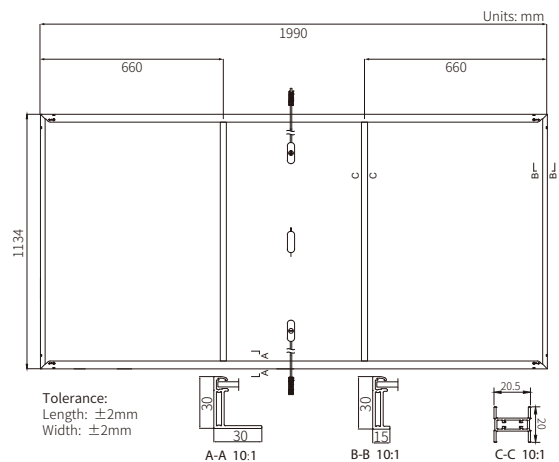
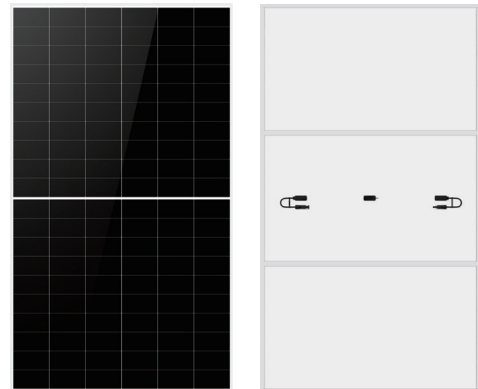
Additional Value

30-Year Power Warranty



Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm ² +400/-200mm/±1400mm length can be customized
Glass	Single glass, 1.6mm coated semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	16.3±3% kg
Dimension	1990×1134×30mm
Packaging	36pcs per pallet / 180pcs per 20' GP / 792pcs per 40' HC



Electrical Characteristics

Module Type	STC : AM1.5 1000W/m ² 25°C		NOCT : AM1.5 800W/m ² 20°C 1m/s		Test uncertainty for Pmax: ±3%	
	LR7-60HVHL-535M	LR7-60HVHL-540M	LR7-60HVHL-545M	LR7-60HVHL-550M	LR7-60HVHL-555M	LR7-60HVHL-560M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	535	407	540	411	545	415
Open Circuit Voltage (Voc/V)	44.78	42.57	44.88	42.66	44.98	42.76
Short Circuit Current (Isc/A)	15.15	12.17	15.25	12.25	15.35	12.33
Voltage at Maximum Power (Vmp/V)	37.01	35.16	37.11	35.26	37.21	35.35
Current at Maximum Power (Imp/A)	14.46	11.58	14.55	11.66	14.65	11.73
Module Efficiency(%)	23.7	23.9	24.2	24.4	24.6	24.8

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	3600Pa
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	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C