

Hi-MO X10 Guardian

Light Design

Preliminary

LR7-60HVHL 535~560M

- Adapted for C&I Rooftops with Low Load-Bearing Capacity
- Lighter Weight: Over 32% weight reduction.
- 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

7.2KG/m²

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%

MAXMODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

<1%

FIRST-YEAR
POWER DEGRADATION

0.35%

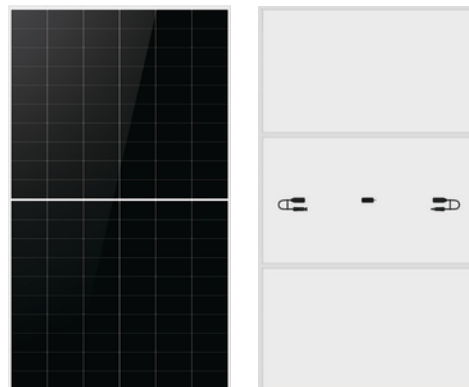
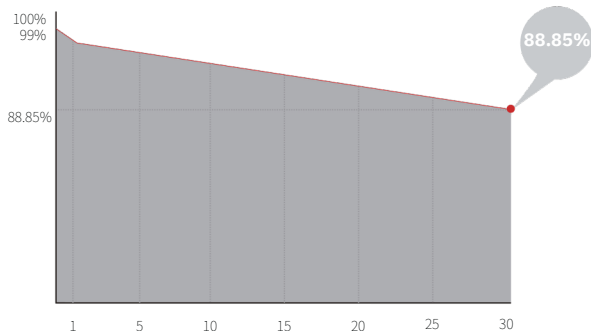
PER-2-30
POWER DEGRADATION

BC-CELL

LOWER OPERATING
TEMPERATURE

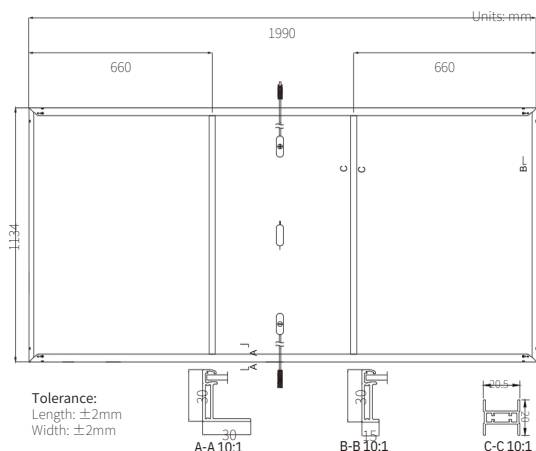
Additional Value

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

STC : AM1.5 1000W/m² 25°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for P_{max}: ±3%

Module Type	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		STC NOCT		STC NOCT		STC NOCT	
Maximum Power (P _{max} /W)	535	407	540	411	545	415	550	419	555	422	560	426
Open Circuit Voltage (V _{oc} /V)	44.78	42.57	44.88	42.66	44.98	42.76	45.08	42.85	45.18	42.95	45.28	43.04
Short Circuit Current (I _{sc} /A)	15.15	12.17	15.25	12.25	15.35	12.33	15.45	12.41	15.55	12.49	15.65	12.57
Voltage at Maximum Power (V _{mp} /V)	35.06	33.11	37.11	35.26	37.21	35.35	37.31	35.45	37.41	35.54	37.51	35.64
Current at Maximum Power (I _{mp} /A)	14.46	11.58	14.55	11.66	14.65	11.73	14.74	11.81	14.84	11.89	14.93	11.96
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 I _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.200%/°C
Temperature Coefficient of P _{max}	-0.260%/°C