Hi-MO X10 Guardian

Light Design

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.

25 25-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

TUV SUD

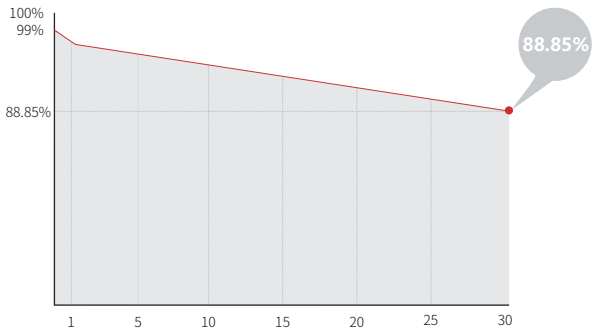
Hi-MO X10 Guardian Light Design Preliminary

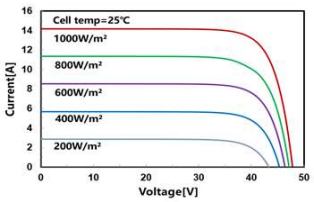
LR7-60HVHL 535~560M

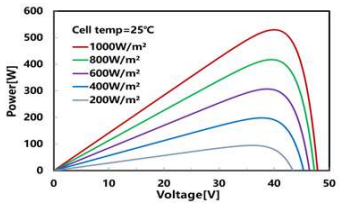
24.8%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER BINNING TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Additional Value

30-Year Power Warranty

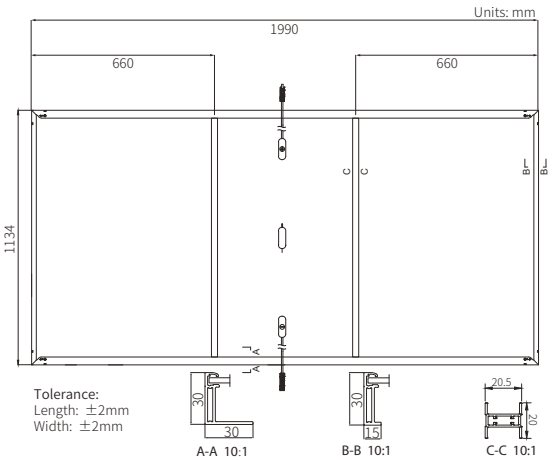






Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68，three diodes
Output Cable	4mm² +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
Connector	PV-LR5(Longi) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (Stäubli)



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s LRC: 200±2W/m² 25±2°C

Module Type	LR7-60HVHL-535M			LR7-60HVHL-540M			LR7-60HVHL-545M			LR7-60HVHL-550M			LR7-60HVHL-555M			LR7-60HVHL-560M		
Testing Condition	STC	NOCT	LRC	STC	NOCT	LRC	STC	NOCT	LRC	STC	NOCT	LRC	STC	NOCT	LRC	STC	NOCT	LRC
Maximum Power (Pmax/W)	535	407	102	540	411	103	545	415	104	550	419	104	555	422	105	560	426	106
Open Circuit Voltage (Voc/V)	44.78	42.57	41.82	44.88	42.66	41.91	44.98	42.76	42.00	45.08	42.85	42.09	45.18	42.95	42.18	45.28	43.04	42.27
Short Circuit Current (Isc/A)	15.15	12.17	3.03	15.25	12.25	3.05	15.35	12.33	3.07	15.45	12.41	3.09	15.55	12.49	3.11	15.65	12.57	3.13
Voltage at Maximum Power (Vmp/V)	37.01	35.16	35.00	37.11	35.26	35.10	37.21	35.35	35.20	37.31	35.45	35.30	37.41	35.54	35.40	37.51	35.64	35.50
Current at Maximum Power (Imp/A)	14.46	11.58	2.91	14.55	11.66	2.93	14.65	11.73	2.96	14.74	11.81	2.98	14.84	11.89	2.99	14.93	11.96	3.01
Module Efficiency(%)	23.7			23.9			24.2			24.4			24.6			24.8		

Test uncertainty for Pmax:±3% Voc & Isc: ±5%

Operating Parameters

Module[T98] Max	+70°C
Power Binning 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
Power Measurement Tolerance:	±3%

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

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