

Hi-MO X10 Scientist

LR7-60HVV

535~560M

- More flexible installation methods, suitable for short frame clamps mounting with high mechanical loading
- High efficiency with better energy generation performance
- N-type TaiRay wafer & HPBC 2.0 innovative technology enhances high product reliability



15-year Warranty for
Materials and Processing



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%

EFFICIENCY

0~3%

TOLERANCE

<1%

FIRST YEAR POWER
DEGRADATION

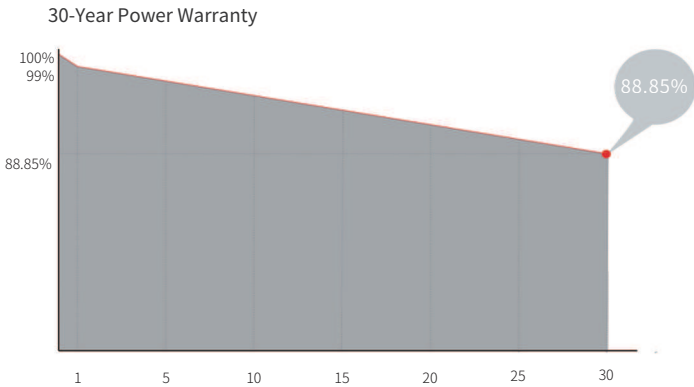
0.35%

POWER DEGRADATION

BC-CELL

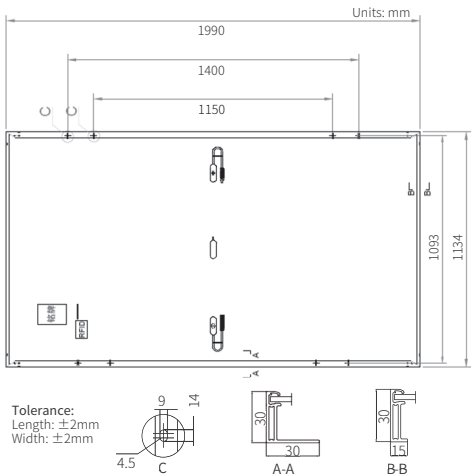
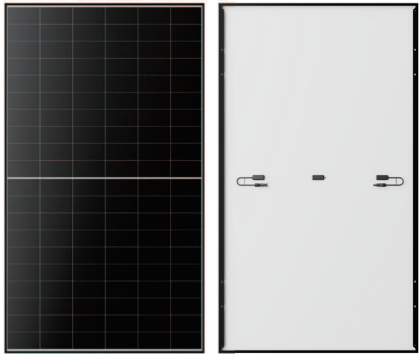
LOWER OPERATING
TEMPERATURE

Additional Value



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 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	25kg
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 Pmax: ±3%

Module Type	LR7-60HVH-535M		LR7-60HVH-540M		LR7-60HVH-545M		LR7-60HVH-550M		LR7-60HVH-555M		LR7-60HVH-560M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	535	407	540	411	545	415	550	419	555	422	560	426
Open Circuit Voltage (Voc/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 (Isc/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 (Vmp/V)	37.01	35.16	37.11	35.26	37.21	35.35	37.31	35.45	37.41	35.54	37.51	35.64
Current at Maximum Power (Imp/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	5400Pa
Loading Rear Side Maximum	2400Pa
Static Loading 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