

Hi-MO X10

LONGI
SOLAR

LR7-60HVD

530~555M

THE **smarter**
AWARD 

- **Flexible installation**, compatible with clamps and capable of withstanding high mechanical loads
- **High efficiency** with enhanced energy generation performance
- **N-type TaiRay wafer and HPBC 2.0 technology** for enhanced product reliability

HPBC
2.0



N-type

30

30 year Warranty for
Extra Linear Power Output

15

15 year Warranty for
Materials and Processing

Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing



24.8%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

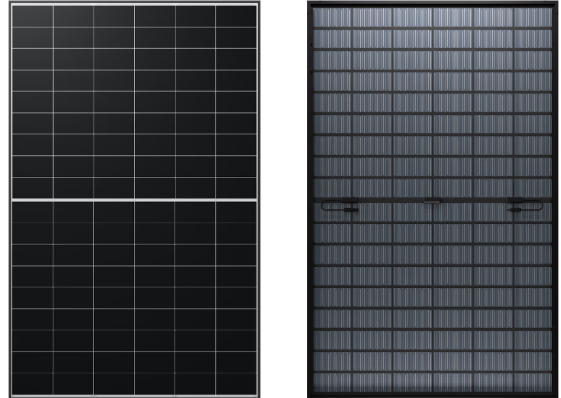
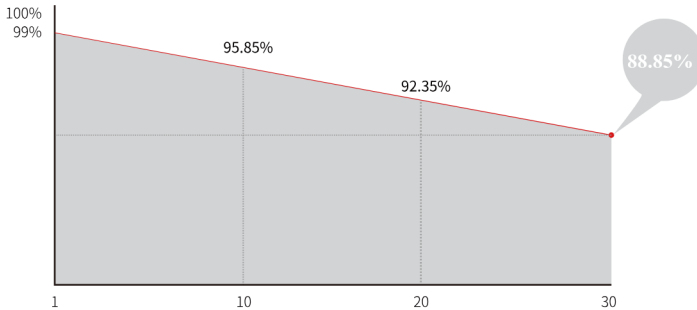
1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

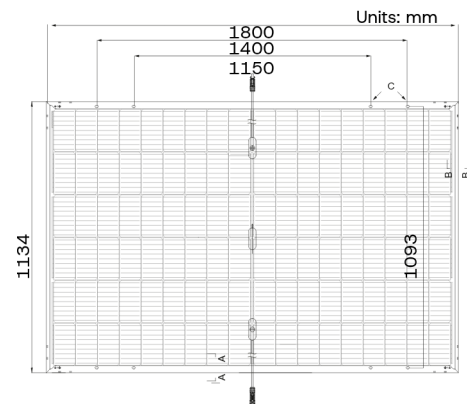
Additional Value

30 Year Power Warranty

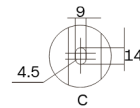


Mechanical Parameters

Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±12.00mm length can be customized
Glass	Dual glass, 2.0+2.0mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	28.5
Dimension	1990×1134×30mm
Packaging	36 pcs per pallet / 180 pcs per 20'GP / 792 pcs per 40'HC



Tolerance:
Length: ±2mm
Width: ±2mm



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	LR7-60HVD-530M		LR7-60HVD-535M		LR7-60HVD-540M		LR7-60HVD-545M		LR7-60HVD-550M		LR7-60HVD-555M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	530	403	535	407	540	411	545	415	550	419	555	422
Open Circuit Voltage (V _{oc} /V)	44.95	42.72	45.05	42.82	45.15	42.91	45.25	43.01	45.35	43.10	45.45	43.20
Short Circuit Current (I _{sc} /A)	14.90	11.97	15.00	12.05	15.10	12.13	15.20	12.21	15.30	12.29	15.40	12.37
Voltage at Maximum Power (V _{mp} /V)	37.17	35.32	37.27	35.41	37.37	35.51	37.47	35.60	37.57	35.70	37.67	35.79
Current at Maximum Power (I _{mp} /A)	14.26	11.42	14.36	11.50	14.45	11.58	14.55	11.65	14.64	11.73	14.73	11.80
Module Efficiency(%)	23.5		23.7		23.9		24.2		24.4		24.6	

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	5400Pa
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