

Hi-MO X10

LONGI
SOLAR

LR7-54HVD (Dual Glass)

THE **smarter**
AWARD 

475~495M

- Extreme Efficiency, 24.3%+
- Leading HPBC2.0 technology, more power generation under the same area
- Low carbon for the whole lifecycle process, more environmentally friendly
- Anti-Shading and Prevent Localized Overheating

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



24.3%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

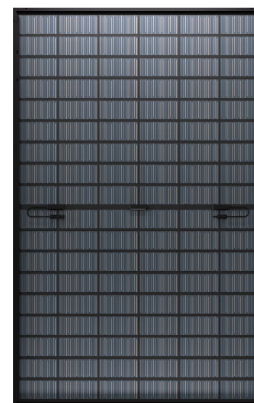
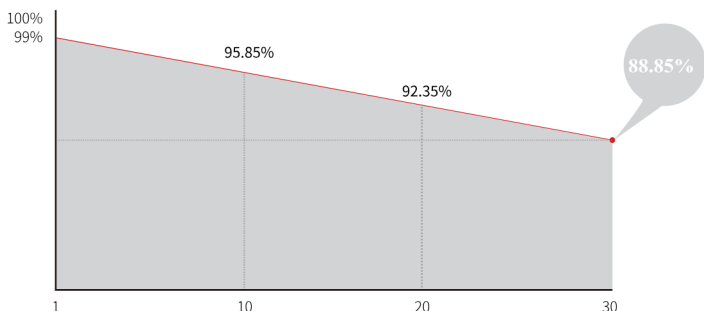
1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

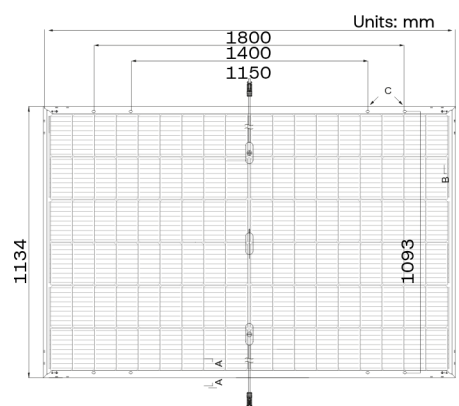
Additional Value

30 Year Power Warranty

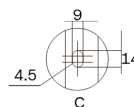


Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , +400, ~200mm/±1200mm length can be customized
Glass	Dual glass, 2.0mm coated tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5 kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs 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	LR7-54HVD-475M		LR7-54HVD-480M		LR7-54HVD-485M		LR7-54HVD-490M		LR7-54HVD-495M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	475.0	361.0	480.0	365.0	485.0	369.0	490.0	373.0	495.0	377.0
Open Circuit Voltage (V _{oc} /V)	40.42	38.39	40.53	38.5	40.64	38.61	40.75	38.73	40.86	38.84
Short Circuit Current (I _{sc} /A)	14.88	11.93	14.98	12.02	15.08	12.1	15.18	12.19	15.28	12.27
Voltage at Maximum Power (V _{mp} /V)	33.4	31.71	33.51	31.82	33.62	31.93	33.73	32.05	33.84	32.16
Current at Maximum Power (I _{mp} /A)	14.23	11.39	14.33	11.48	14.43	11.56	14.53	11.65	14.63	11.73
Module Efficiency(%)	23.3		23.5		23.8		24.0		24.3	

Electrical characteristics with different rear side power gain

P _{max} /W	V _{oc} /V	I _{sc} /A	V _{mp} /V	I _{mp} /A	P _{max} gain
504.0	40.53	15.73	33.51	15.04	0.05
528.0	40.53	16.48	33.51	15.76	0.1
552.0	40.63	17.23	33.61	16.42	0.15
576.0	40.63	17.98	33.61	17.14	0.2
600.0	40.63	18.73	33.61	17.85	0.25

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