

# Hi-MO X10

LONGI  
SOLAR

## LR7-54HVH

THE **smarter**  
AWARD **E**

# 475~490M

- 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
- Higher Hail Resistance

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 %**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

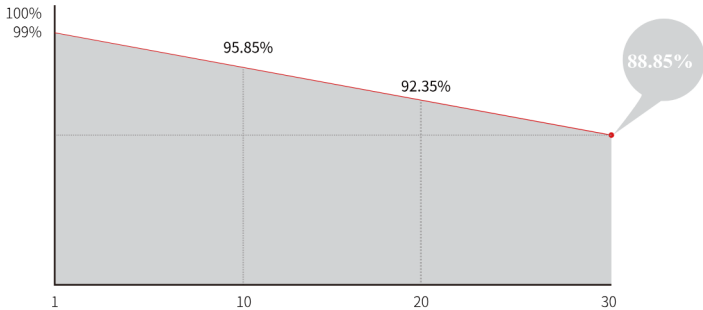
**1%**  
FIRST YEAR  
POWER DEGRADATION

**0.35%**  
YEAR 2-30  
POWER DEGRADATION

**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

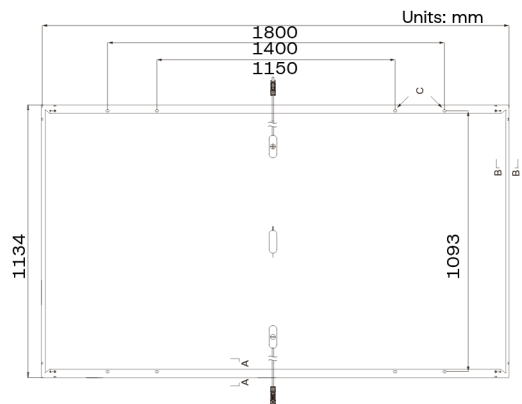
## Additional Value

### 30 Year Power Warranty

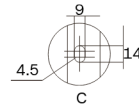


## Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , +400, -200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.6 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/m<sup>2</sup> 25°C

NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Test uncertainty for P<sub>max</sub> ±3%

Module Type	LR7-54HVH-475M		LR7-54HVH-480M		LR7-54HVH-485M		LR7-54HVH-490M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	475.0	362.0	480.0	365.0	485.0	369.0	490.0	373.0
Open Circuit Voltage (V <sub>oc</sub> /V)	40.18	38.18	40.29	38.29	40.4	38.39	40.52	38.51
Short Circuit Current (I <sub>sc</sub> /A)	15.03	12.08	15.13	12.16	15.23	12.24	15.33	12.32
Voltage at Maximum Power (V <sub>mp</sub> /V)	33.16	31.52	33.28	31.63	33.4	31.74	33.51	31.85
Current at Maximum Power (I <sub>mp</sub> /A)	14.33	11.49	14.43	11.57	14.53	11.65	14.63	11.73
Module Efficiency(%)	23.3		23.5		23.8		24.0	

## 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 <sub>sc</sub>	+0.050%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.200%/°C
Temperature Coefficient of P <sub>max</sub>	-0.260%/°C