Hi-MO X10 Explorer

LR7-54HVH **475~490M**

- Suitable for Distribution Market
- Highest efficiency with the best energy generation performance
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality



15-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 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













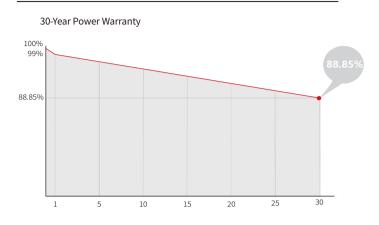
LR7-54HVH 475~490M

24.0% MAX MODULE EFFICIENCY 0~3%
POWER
TOLERANCE

<1% FIRST YEAR POWER DEGRADATION 0.35% YEAR 2-30 POWER DEGRADATION

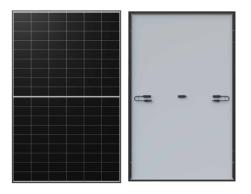
BC-CELL LOWER OPERATING TEMPERATURE

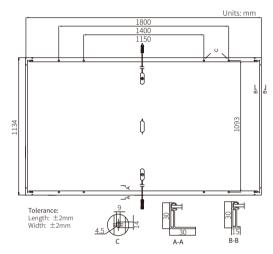
Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)	
Junction Box	IP68, three diodes	
Output Cable	4mm², +400, -200mm/ \pm 1400mm length can be customized	
Glass	Single glass, 3.2mm coated tempered glass	
Frame	Anodized aluminum alloy frame	
Weight	21.6kg	
Dimension	1800×1134×30mm	
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs per 40' HC	





Electrical Characteristics	STC: AM1.5 1000W/m ² 25°C		NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%						
Module Type	LR7-54HVH-475M		LR7-54HVH-480M		LR7-54HVH-485M		LR7-54H	LR7-54HVH-490M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power (Pmax/W)	475	362	480	365	485	369	490	373	
Open Circuit Voltage (Voc/V)	40.18	38.18	40.29	38.29	40.40	38.39	40.52	38.51	
Short Circuit Current (Isc/A)	15.03	12.08	15.13	12.16	15.23	12.24	15.33	12.32	
Voltage at Maximum Power (Vmp/V)	33.16	31.52	33.28	31.63	33.40	31.74	33.51	31.85	
Current at Maximum Power (Imp/A)	14.33	11.49	14.43	11.57	14.53	11.65	14.63	11.73	
Module Efficiency(%)	2	23.3	2	3.5	2	13.8	2	4.0	

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℃
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 Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

