

Hi-MO X10

Anti-Dust

LR7-54HVHF

475~500M



Patented Frame Design

Effectively Reduces Dust Accumulation Impact, Boosting Power Generation by 2%+.



Scenario Adaptation

More suitable for C&I color steel tile roofs and small angle installation scenarios.



Safe & Reliable

Prevent Overheating, Lower temperature under shade 60°C+ compare with conventional modules.



Value-Added

A+ Anti-Shading, Less Loss.

HPBC
2.0



N N-type

Monofacial
Power Generation

25Y Product
Warranty

30Y Performance
Warranty

Complete System and Product Certifications

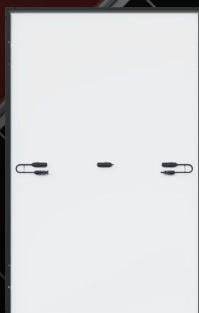
IEC 61215, IEC 61730

IEC62941: Guideline for module design qualification and type approval

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety



24.5%
MAX MODULE
EFFICIENCY

0~3%
POWER BINNING
TOLERANCE

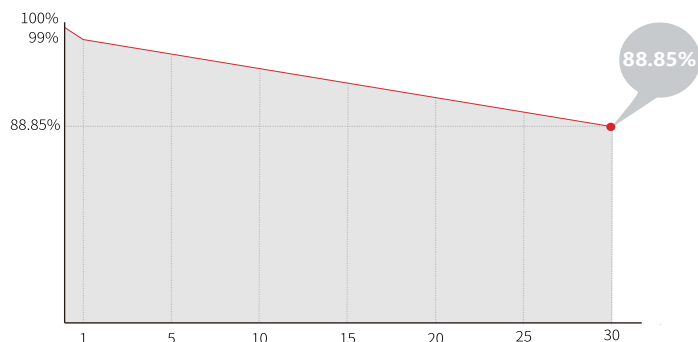
<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

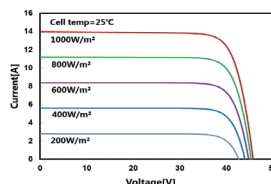
BC-CELL
LOWER OPERATING
TEMPERATURE

Additional Value

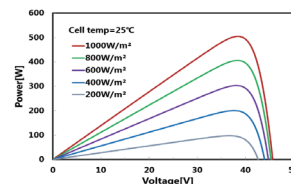
30-Year Power Warranty



Current-Voltage Curves
(LR7-54HVHF-500M)



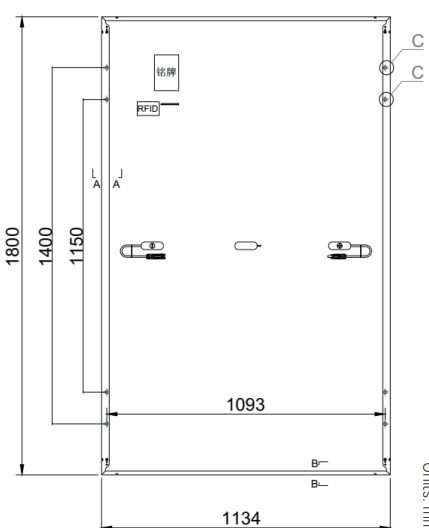
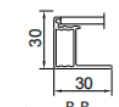
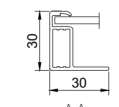
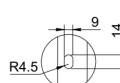
Power-Voltage Curves
(LR7-54HVHF-500M)



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±12 00mm 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	35 pcs per pallet / 210pcs per 20' GP / 840pcs per 40' HC
Connector	EVO2A(Staubli) or PV-LR5(LONGi)

Tolerance:
Length: ±2mm
Width: ±2mm



Units: mm

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	LR7-54HVHF-475M		LR7-54HVHF-480M		LR7-54HVHF-485M		LR7-54HVHF-490M		LR7-54HVHF-495M		LR7-54HVHF-500M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	475	362	480	365	485	369	490	373	495	377	500	381
Open Circuit Voltage (Voc/V)	40.18	38.18	40.29	38.29	40.40	38.39	40.52	38.51	40.64	38.62	40.75	38.72
Short Circuit Current (Isc/A)	15.03	12.08	15.13	12.16	15.23	12.24	15.33	12.32	15.43	12.40	15.53	12.48
Voltage at Maximum Power (Vmp/V)	33.16	31.52	33.28	31.63	33.40	31.74	33.51	31.85	33.62	31.95	33.73	32.06
Current at Maximum Power (Imp/A)	14.33	11.49	14.43	11.57	14.53	11.65	14.63	11.73	14.73	11.81	14.83	11.89
Module Efficiency(%)	23.3		23.5		23.8		24.0		24.3		24.5	

Operating Parameters

Operational Temperature	-40°C ~ +70°C
Power Binning Tolerance	0 ~ 3%
Power Measurement Tolerance	±3%
Voc & Isc Measurement Tolerance	±5%
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 Test Loading	5400Pa
Rear Side Maximum Static Test 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