Hi-MO X10

LR7-54HVH

475~490M

Advanced Technology
Superior efficiency for higher energy output.

Shading Management
Ensures optimal performance and safety against hotspots.

Aesthetic
Gridless design that blends seamlessly into any environment.

Safety
Prevents overheating, with lower temperatures under shading conditions.

HPBC 2.0 | TaiRay | N-type

Monofacial Power Generation

15Y Product Warranty | 30Y Performance Warranty

Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety

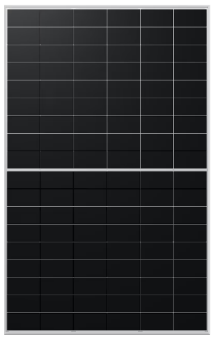
IEC62941: Quality System for PV Manufacturing



Hi-MO X10

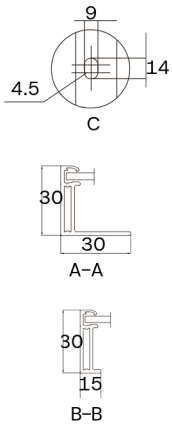
LR7-54HVH

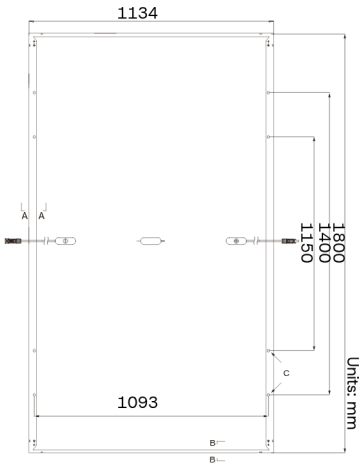
24%	0~3%	1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE





Tolerance:
Length: ±2mm
Width: ±2mm





Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm2, +400, -200mm/±1200mm length can be customized
Connector	EVO2A(Staubli) or PV-LR5(LONGi)
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

Electrical Characteristics

STC : AM1.5 1000W/m2 25℃ NOCT : AM1.5 800W/m2 20℃ 1m/s

Test uncertainty for Pmax ±3%

Module Type	LR7-54HVH-475M		LR7-54HVH-480M		LR7-54HVH-485M		LR7-54HVH-490M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	475.0	362.0	480.0	365.0	485.0	369.0	490.0	373.0
Open Circuit Voltage (Voc/V)	40.18	38.18	40.29	38.29	40.4	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	33.4	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(%)	23.3		23.5		23.8		24.0	

Operating Parameters

Operational Temperature	-40℃ ~ +85℃
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

Min Designed Mechanical Load	1600Pa/1600Pa
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Resistance	40mm Hailstone at the speed of 27.54m/s - RG4[1]

Temperature Ratings (STC)

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

LONGi SOLAR

(1) Certified RG4 (40mm) with additional internally validated resistance to 45 mm impacts at 30 m/s.

Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation.