

Hi-MO X10

Anti-Glare

LONGI
SOLAR

LR7-54HVH

480~500M



Scenario Adaptation

Suitable for glare-sensitive areas such as airports, highways and residential districts.



Glare Reduction

High-transparency, low-reflection glass enhances the anti-glare effect



Advanced Technology

Superior efficiency for higher energy output.



Ultimate Safety

High reliability, stable operation in harsh conditions.

HPBC
2.0



N-type

15Y Product Warranty | 30Y Performance Warranty

Monofacial
Power Generation

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 Module Manufacturing



CE



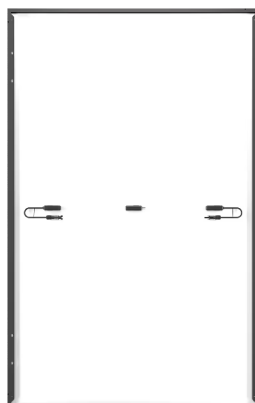
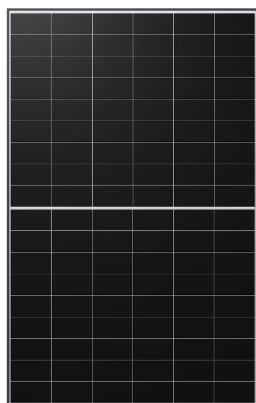
24.5 %
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

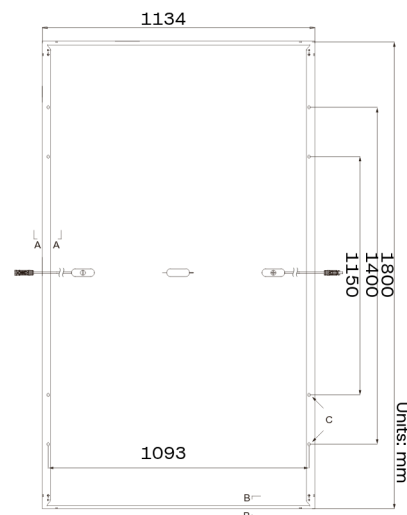
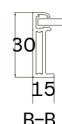
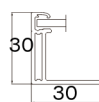
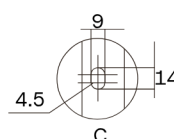
1%
FIRST YEAR
POWER DEGRADATION

0.35 %
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE



Tolerance:
Length: $\pm 2\text{mm}$
Width: $\pm 2\text{mm}$



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/ $\pm 1200\text{mm}$ length can be customized
Connector	EVO2A(Staubli) or PV-LR5(LONGi)
Glass	Single glass, 3.2mm Anti-glare 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°CNOCT : AM1.5 800W/m² 20°C 1m/sTest uncertainty for P_{max} $\pm 3\%$

Module Type	LR7-54HVH-480M	LR7-54HVH-485M	LR7-54HVH-490M	LR7-54HVH-495M	LR7-54HVH-500M
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (P _{max} /W)	480.0	485.0	490.0	495.0	500.0
Open Circuit Voltage (V _{oc} /V)	40.29	40.4	40.52	40.64	40.75
Short Circuit Current (I _{sc} /A)	15.13	15.23	15.33	15.43	15.53
Voltage at Maximum Power (V _{mp} /V)	33.28	33.4	33.51	33.62	33.73
Current at Maximum Power (I _{mp} /A)	14.43	14.53	14.63	14.73	14.83
Module Efficiency(%)	23.5	23.8	24.0	24.3	24.5

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

Min Designed Mechanical Load	1600Pa/1600Pa
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Resistance	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