

Hi-MO X10

LONGI
SOLAR

LR7-54HVD (Dual Glass)

475~500M



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



N-type

15Y Product Warranty | **30Y** Performance Warranty

Bifacial 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 Manufacturing



CE



24.5 %
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

1 %
FIRST YEAR
POWER DEGRADATION

0.35 %
YEAR 2~30
POWER DEGRADATION

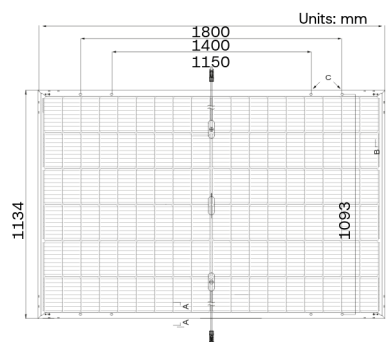
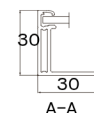
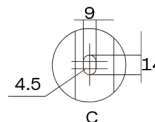
BC-CELL
LOWER OPERATING
TEMPERATURE

Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , +400, -200mm/±1200mm length can be customized
Connector	EVO2A(Staubli) or PV-LR5(LONGi)
Glass	Dual glass, 2.0mm coated tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5 kg
Dimension	1800×1134×30mm
Packaging	37pcs per pallet / 222pcs per 20' GP / 888pcs per 40' HC

Electrical characteristics with different rear side power gain

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
480	40.53	14.98	33.51	14.33	0%
504	40.53	15.73	33.51	15.04	5%
528	40.53	16.48	33.51	15.76	10%
552	40.63	17.23	33.61	16.42	15%
576	40.63	17.98	33.61	17.14	20%
600	40.63	18.73	33.61	17.85	25%


Tolerance:
Length: ±2mm
Width: ±2mm


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	LR7-54HVD-475M	LR7-54HVD-480M	LR7-54HVD-485M	LR7-54HVD-490M	LR7-54HVD-495M	LR7-54HVD-500M
Testing Condition	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	475	480	485	490	495	500
Open Circuit Voltage (Voc/V)	40.42	40.53	40.64	40.75	40.86	40.97
Short Circuit Current (Isc/A)	14.88	14.98	15.08	15.18	15.28	15.38
Voltage at Maximum Power (Vmp/V)	33.40	33.51	33.62	33.73	33.84	33.95
Current at Maximum Power (Imp/A)	14.23	14.33	14.43	14.53	14.63	14.73
Module Efficiency(%)	23.27	23.52	23.76	24.01	24.25	24.50

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
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	30mm Hailstone at the speed of 23.9m/s – RG3 ¹

Temperature Ratings (STC)

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