LONGi EcoLife

Define Roof Define Life

THE smarter E AWARD

X10 Single Glass Premium Black

(LR7-54HVB)

475~495M 24.3W/m²

Leading
Black Module Efficiency

Efficiency 24.3%

70%
Output Maintained when Shaded[1]

Anti Shading

HW4
Hail Resistance[2]

3.2mm Tempered Glass

60°C
Lower Temperature under Shade[3]

Prevent Overheating

TIER 1 Bloomberg NEW ENERGY FINANCE

TÜV SÜD

CE

PV CYCLE

HPBC 2.0

30 YEAR WARRANTY Power | Product

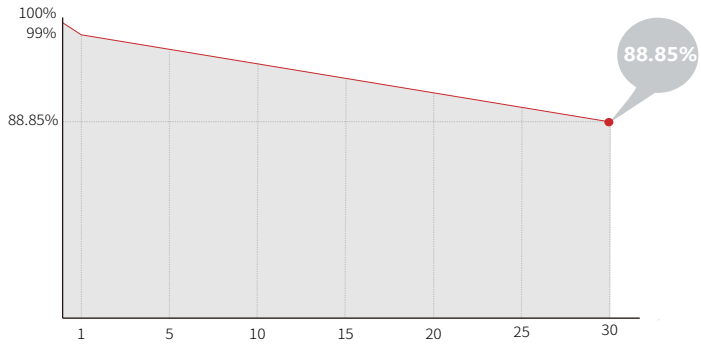
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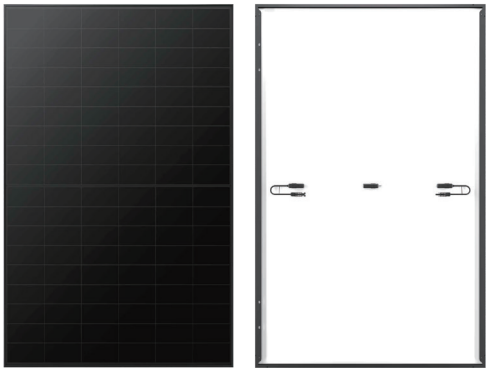
LR7-54HVB 475~495M

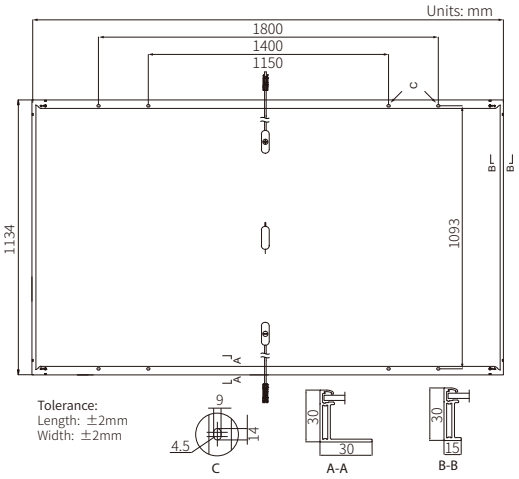
24.3%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Additional Value

30-Year Power Warranty







Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm², +400, -200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black 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/m² 25°C Test uncertainty for Pmax: ±3%

Module Type	LR7-54HVB-475M	LR7-54HVB-480M	LR7-54HVB-485M	LR7-54HVB-490M	LR7-54HVB-495M
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	475	480	485	490	495
Open Circuit Voltage (Voc/V)	40.18	40.29	40.40	40.52	40.64
Short Circuit Current (Isc/A)	15.03	15.13	15.23	15.33	15.43
Voltage at Maximum Power (Vmp/V)	33.16	33.28	33.40	33.51	33.62
Current at Maximum Power (Imp/A)	14.33	14.43	14.53	14.63	14.73
Module Efficiency(%)	23.3	23.5	23.8	24.0	24.3

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

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hail Class	HW4[2]

Temperature Ratings (STC)

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

1. Data source:Test of single-cell shading in LONGi internal Lab. Anti-shading effect vary due to differences in test irradiation conditions, temperature, software, etc.
2. This product has obtained Swiss Hail VKF HW4 certification (Reference diameterof ice balls-VKF 40mm) . Due to various test factors, consistentresults in every test cannot be guaranteed; actual test results prevail.
3. Data source: Comparison of test temperatures between EcoLife modules and conventional modules based on IEC 61215 Hot-spot endurance test (WBT) – MQT 09. Test data vary due to differences in the tested modules and institution.

Specifications included in this datasheet are subject to change without notice. LONGi reserves the right of final interpretation. (BGV02 20250820)