

LONGi EcoLife

LR7-54HVB

475~495M (243 W/m^2)

THE **smarter**
AWARD 



High
Efficiency

Leading
Black Module
Efficiency



Anti
Shading

70%
Output Maintained
when Shaded



3.2mm
Tempered
Glass

HW4
Hail Resistance



Prevent
Overheating

60°C
Lower Temperature under
Shade



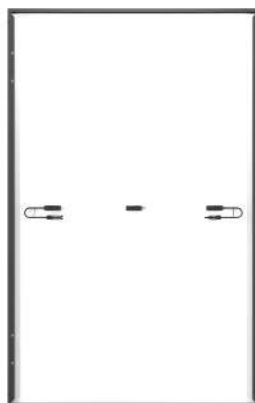
24.3 %
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

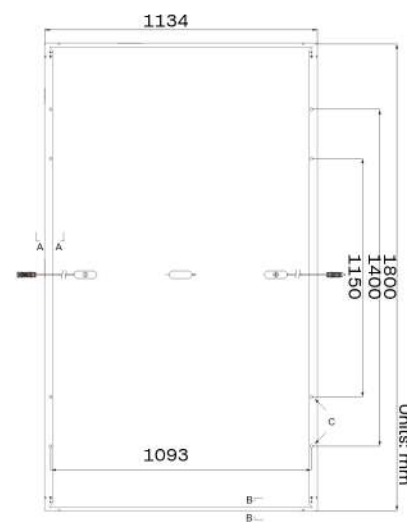
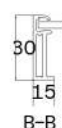
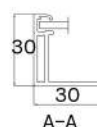
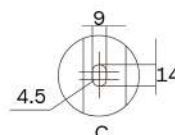
1 %
FIRST YEAR
POWER DEGRADATION

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
Output Cable	4mm ² , +400, -200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black 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°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for P_{max} ±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 (P _{max} /W)	475.0	480.0	485.0	490.0	495.0
Open Circuit Voltage (V _{oc} /V)	40.18	40.29	40.4	40.52	40.64
Short Circuit Current (I _{sc} /A)	15.03	15.13	15.23	15.33	15.43
Voltage at Maximum Power (V _{mp} /V)	33.16	33.28	33.4	33.51	33.62
Current at Maximum Power (I _{mp} /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
Hailstone Test	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