LONGi EcoLife

LR7-54HVB

475~495M (243 W/m²)

Leading
Black Module Efficiency

High Efficiency

70%
Output Maintained when Shaded

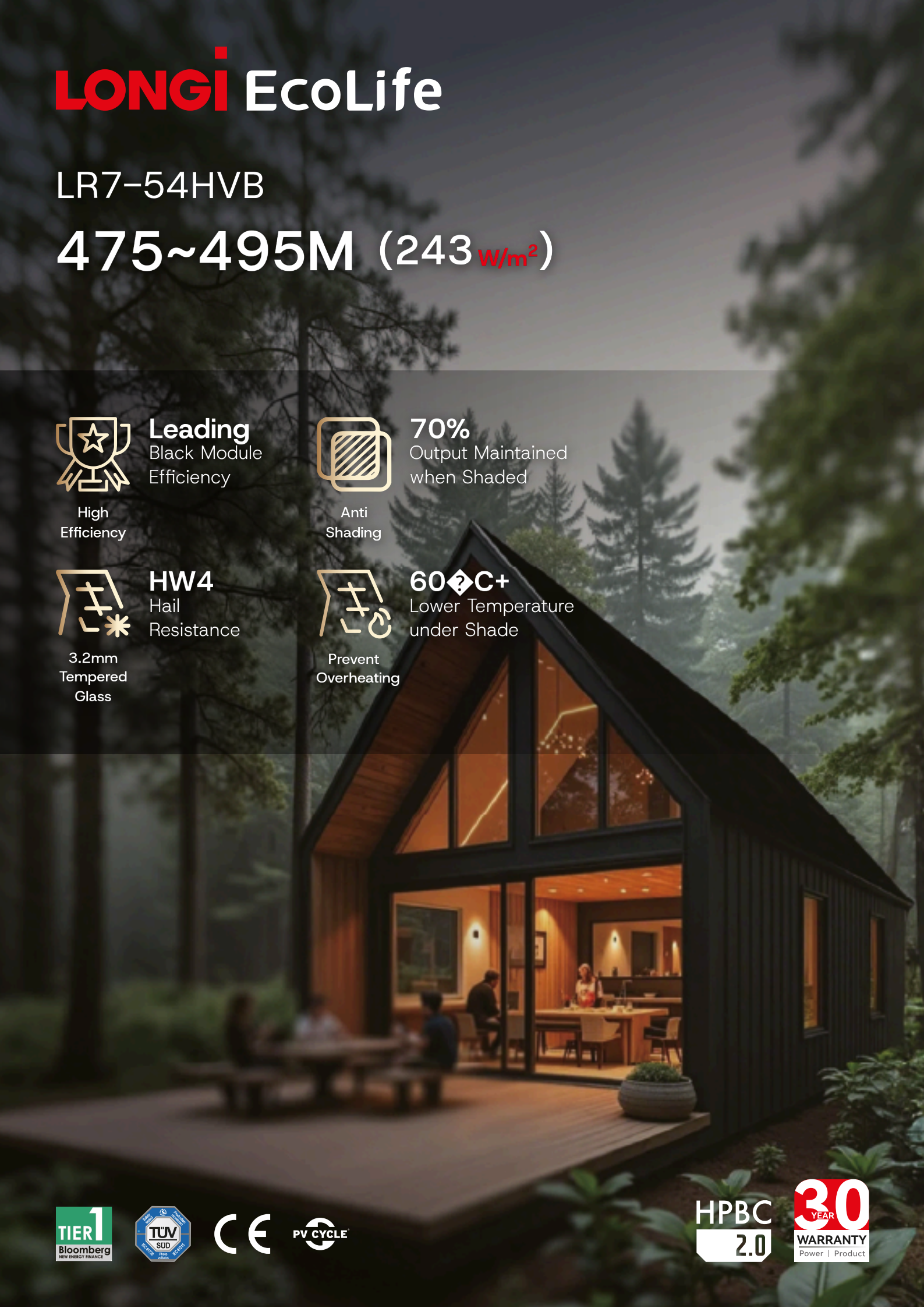
Anti Shading

HW4
Hail Resistance

3.2mm Tempered Glass

60°C+
Lower Temperature under Shade

Prevent Overheating



TIER 1 Bloomberg NEW ENERGY FINANCE

TÜV SÜD

CE

PV CYCLE

HPBC 2.0

30 YEAR WARRANTY
Power | Product

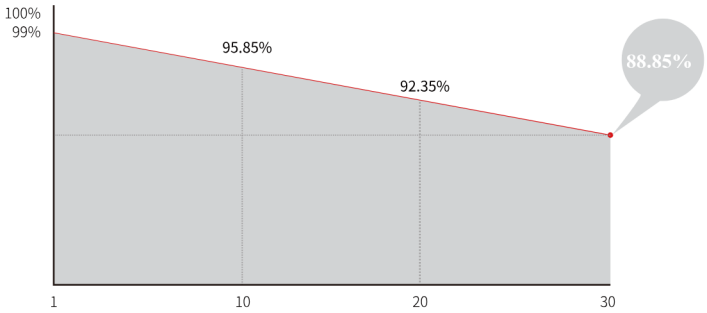
Define Roof Define Life

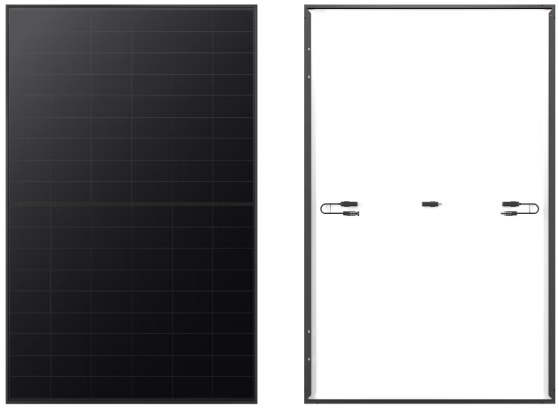
LR7-54HVB

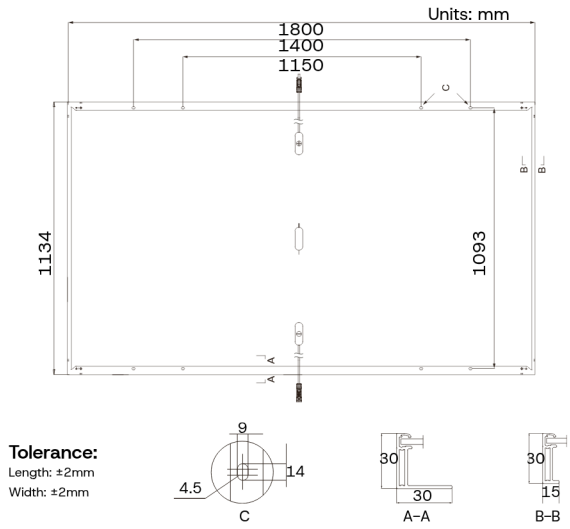
24.3%	0~3%	1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Additional Value

30-Year Power Warranty







Tolerance:
Length: ±2mm
Width: ±2mm

Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm2, +400, -200mm/±12 00mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black anodized aluminum alloy frame
Weight	21.6
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	LR7-54HVB-475M	LR7-54HVB-480M	LR7-54HVB-485M	LR7-54HVB-490M	LR7-54HVB-495M
Testing Condition	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	475.0	480.0	485.0	490.0	495.0
Open Circuit Voltage (Voc/V)	40.18	40.29	40.4	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	33.4	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℃ ~ +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

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

LONGi SOLAR

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