

# LONGi EcoLife

## LR7-54HVB(Single Glass)

# 465~470M

### First Choice For High-End Residential

▶ **Extreme Efficiency**

▶ **High Power Generation**

Leading HPBC2.0 technology, more power generation under the same area

▶ **Safety Function**

Anti-Shading and Prevent Localized Overheating

▶ **Low Carbon and Environmentally Friendly**

Low carbon for the whole lifecycle process, more environmentally friendly

▶ **Pure Black Appearance**

No gridlines, low glare

▶ **Higher Hail Resistance**

3.2mm tempered glass on the front

### Complete System and Product Certifications

IEC61215, IEC 61730

ISO9001: Quality Management System

ISO14001: Environment Management System

ISO45001: Occupational Health and Safety Management System

IEC62941: Quality System for PV Module Manufacturing

**30** 30-Year Warranty for Materials and Processing

**30** 30-Year Warranty for Extra Linear Power Output



**23.0%**  
MAX MODULE  
EFFICIENCY

**0~3%**  
POWER  
TOLERANCE

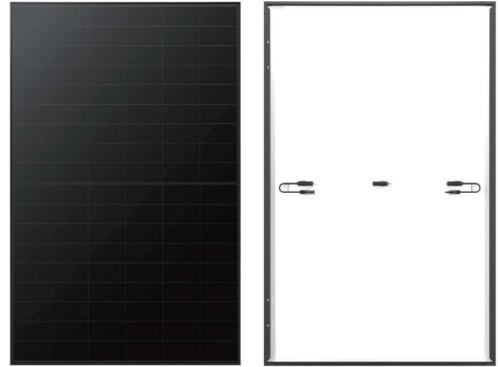
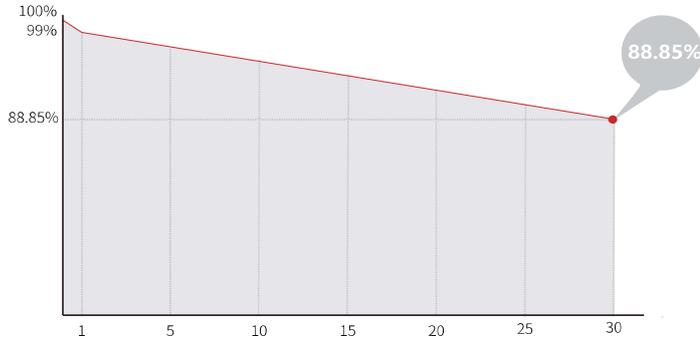
**<1%**  
FIRST YEAR  
POWER DEGRADATION

**0.35%**  
YEAR 2-30  
POWER DEGRADATION

**BC-CELL**  
LOWER OPERATING  
TEMPERATURE

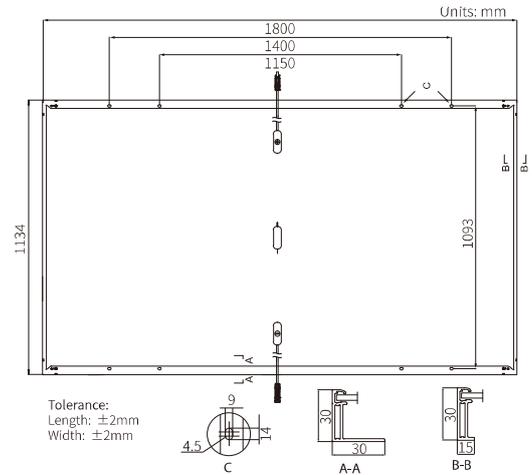
**Additional Value**

30-Year Power Warranty



**Mechanical Parameters**

Cell Orientation	108 (6 × 18)
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , +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/m<sup>2</sup> 25°C NOCT : AM1.5 800W/m<sup>2</sup> 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR7-54HVB-465M		LR7-54HVB-470M	
	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	465	354	470	358
Open Circuit Voltage (Voc/V)	39.96	37.97	40.07	38.08
Short Circuit Current (Isc/A)	14.83	11.92	14.93	12.00
Voltage at Maximum Power (Vmp/V)	32.93	31.30	33.05	31.41
Current at Maximum Power (Imp/A)	14.13	11.33	14.23	11.41
Module Efficiency(%)	22.8		23.0	

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

