

LONGi EcoLife

LR7-54HVBB(Dual Glass)

470~485M (238W/m²)

First Choice For High-End Residential

- **Extreme Efficiency, 23.8%+**
- **High Power Generation**
  Leading HPBC2.0 technology, more power generation under the same area
- **Low Carbon and Environmentally Friendly**
  Low carbon for the whole lifecycle process, more environmentally friendly
- **Safety Function**
  Anti-Shading and Prevent Localized Overheating
- **Pure Black Appearance**
  No gridlines, low glare

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

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

TUV SUD

CE

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

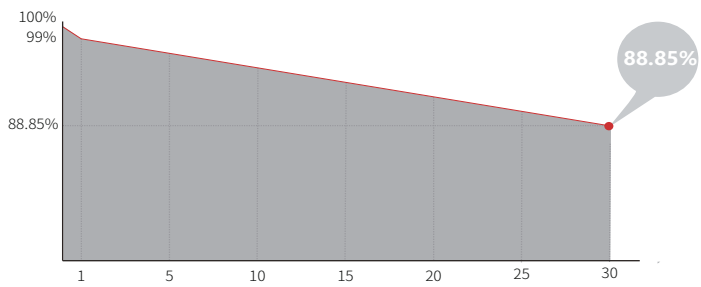
Residential PV Modules, Choose BC

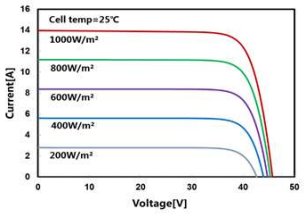
LR7-54HVBB 470~485M

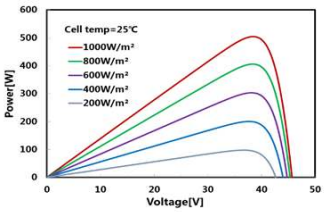
23.8%	0~3%	<1%	0.35%	BC-CELL
MAX MODULE EFFICIENCY	POWER BINNING TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	LOWER OPERATING TEMPERATURE

Additional Value

30-Year Power Warranty

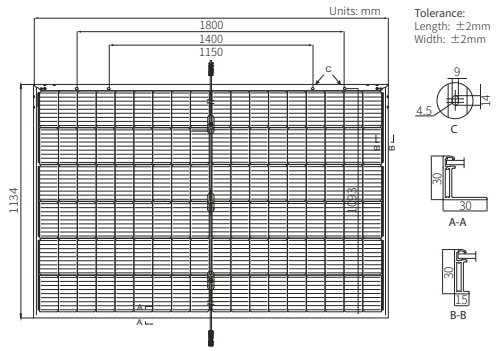






Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm², +400, -200mm/±1200mm length can be customized
Glass	Double galss 2.0mm semi-tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20' GP / 864pcs per 40' HC
Connector	PV-LR5(Longi) PV-KST4-EVO2A/xy_UR, PV-KBT4-EVO2A/xy_UR(Stäubli)



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C Test uncertainty for Pmax: ±3% Voc& Isc: ±5% BSI Bificiality: φPmax 70±10%, φVoc 98%±5%, φIsc 70±10%

Module Type	LR7-54HVBB-470M	LR7-54HVBB-475M	LR7-54HVBB-480M	LR7-54HVBB-485M
Testing Condition	STC	STC	STC	STC
Maximum Power (Pmax/W)	470	475	480	485
Open Circuit Voltage (Voc/V)	40.31	40.42	40.53	40.64
Short Circuit Current (Isc/A)	14.78	14.88	14.98	15.08
Voltage at Maximum Power (Vmp/V)	33.29	33.40	33.51	33.62
Current at Maximum Power (Imp/A)	14.13	14.23	14.33	14.43
Module Efficiency(%)	23.0	23.3	23.5	23.8
BSI Short Circuit Current (A)	17.86	17.99	18.11	18.24

Electrical Characteristics

BNPI : Irradiance:friont 1000/m² rear 135W/m² 25°C AM1.5 BSI: Friont 1000/m² rear 300 W/m² 25°C AM1.5

Module Type	LR7-54HVBB-470M	LR7-54HVBB-475M	LR7-54HVBB-480M	LR7-54HVBB-485M
Testing Condition	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax/W)	515	520	526	531
Open Circuit Voltage (Voc/V)	40.31	40.42	40.53	40.64
Short Circuit Current (Isc/A)	16.17	16.28	16.40	16.51
Voltage at Maximum Power (Vmp/V)	33.29	33.40	33.51	33.62
Current at Maximum Power (Imp/A)	15.46	15.57	15.68	15.80
Module Efficiency(%)	25.2	25.5	25.7	26.0

Operating Parameters

Module[T98] Max	+70°C
Power Binning 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
Power Measurement Tolerance:	±3%

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

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