



LR7-54HJD(Dual Glass)

495~510M (250_{W/m²})

First Choice For High-End Residential

- ▶ **Ultimate Efficiency, 25%+**
- ▶ **More Power Generation**
Exclusive HBC technology, higher power generation in all scenarios
- ▶ **Longer Module Life**
Butyl rubber seals for better water resistance
- ▶ **Enhanced Safety Function**
Optimized Anti-Shading and Prevent Localized Overheating
- ▶ **Higher Hurricanes and Snow Resistance**
Enhanced Mechanical Load: 6000Pa/3600Pa
- ▶ **Low Carbon and Environmentally Friendly**
Low carbon for the whole lifecycle,
more environmentally friendly

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



Residential PV Modules, Choose BC

LR7-54HJD 495~510M

25.0%
MAX MODULE
EFFICIENCY

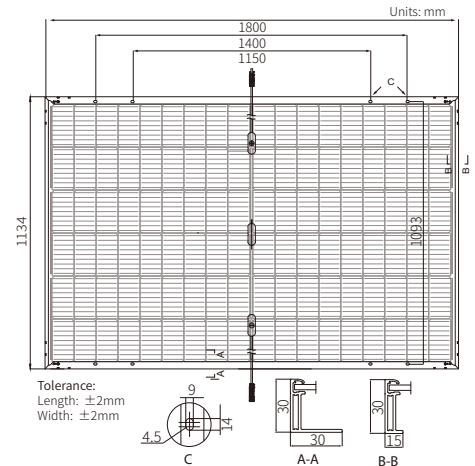
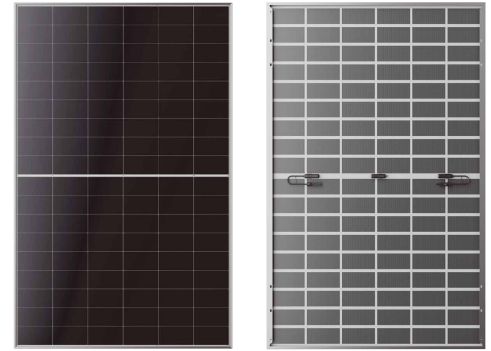
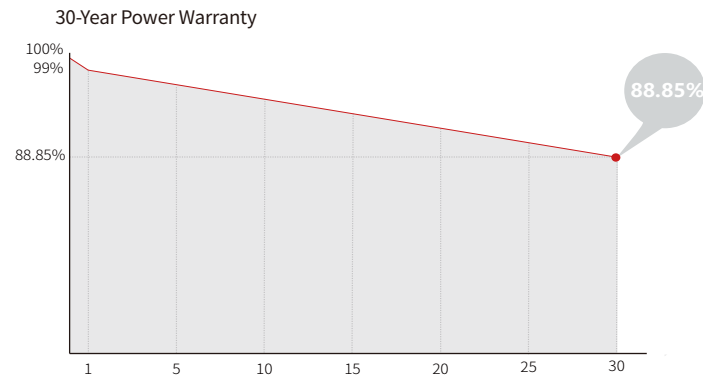
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

Additional Value



Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm ² , +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

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for Pmax: $\pm 3\%$

Module Type	LR7-54HJD-495M		LR7-54HJD-500M		LR7-54HJD-505M		LR7-54HJD-510M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	495	377	500	380	505	384	510	388
Open Circuit Voltage (Voc/V)	41.25	39.21	41.35	39.30	41.45	39.40	41.55	39.49
Short Circuit Current (Isc/A)	15.19	12.20	15.30	12.29	15.41	12.38	15.52	12.46
Voltage at Maximum Power (Vmp/V)	34.07	32.37	34.17	32.47	34.27	32.56	34.37	32.66
Current at Maximum Power (Imp/A)	14.53	11.64	14.63	11.72	14.74	11.80	14.84	11.89
Module Efficiency(%)	24.3		24.5		24.7		25.0	

Electrical characteristics with different rear side power gain (reference to 505W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
530	41.45	16.18	34.27	15.47	5%
556	41.45	16.95	34.27	16.21	10%
581	41.55	17.72	34.37	16.90	15%
606	41.55	18.49	34.37	17.63	20%
631	41.55	19.26	34.37	18.37	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output 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

Mechanical Loading

Front Side Maximum Static Loading	6000Pa
Rear Side Maximum Static Loading	3600Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.210%/°C
Temperature Coefficient of Pmax	-0.240%/°C



Specifications included in this datasheet are subject to change without notice.
LONGI reserves the right of final interpretation. (BGV02 20250423)