

LONGI EcoLife

Define Roof Define Life



S10 Double Glass
(LR7-54HJD)

495~510M 250W/m²

raymann kraft der sonne®

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Leading
Module
Efficiency

Efficiency
25.0%



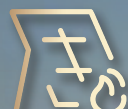
Anti
Shading

70%
Output Maintained
when Shaded¹



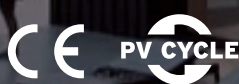
High
Wind
Resistance

Loading
6000/3600Pa



Prevent
Overheating

60°C+
Lower Temperature
under Shade²



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LR7-54HJD 495~510M

25.0%
MAX MODULE
EFFICIENCY

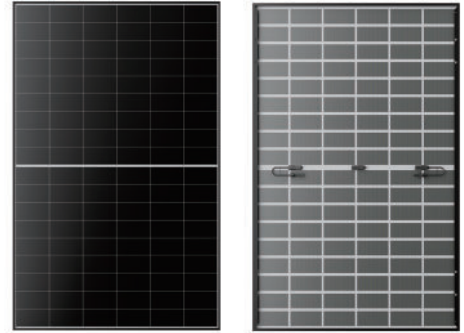
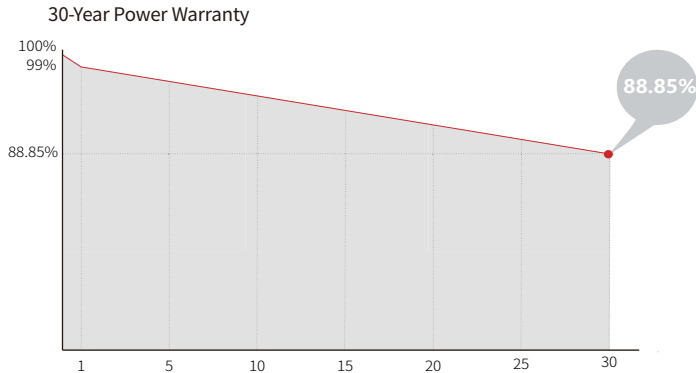
0~3%
POWER
TOLERANCE

<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

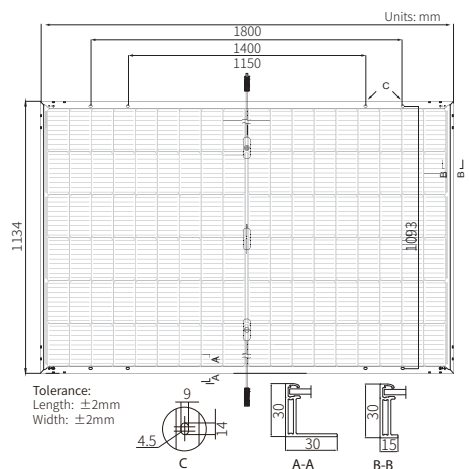
BC-CELL
LOWER OPERATING
TEMPERATURE

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 glass 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

Test uncertainty for Pmax: ±3%

Module Type	LR7-54HJD-495M	LR7-54HJD-500M	LR7-54HJD-505M	LR7-54HJD-510M
Testing Condition	STC	STC	STC	STC
Maximum Power (Pmax/W)	495	500	505	510
Open Circuit Voltage (Voc/V)	41.25	41.35	41.45	41.55
Short Circuit Current (Isc/A)	15.19	15.30	15.41	15.52
Voltage at Maximum Power (Vmp/V)	34.07	34.17	34.27	34.37
Current at Maximum Power (Imp/A)	14.53	14.63	14.74	14.84
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



1. Data source: Test of single-cell shading in LONGI internal Lab. Anti-shading effect vary due to differences in test irradiation conditions, temperature, software, etc.

2. Data source: Comparison of test temperatures between EcoLife modules and conventional modules based on IEC 61215 Hot-spot endurance test (WBT) - MQT 09. Test data vary due to differences in the tested modules and institution.

Specifications included in this datasheet are subject to change without notice. LONGI reserves the right of final interpretation. (BGV02 20250820)