

LONGi EcoLife

Define Roof Define Life



S10 Double Glass Premium Black
(LR7-54HJBB)

490~505M 247 W/m^2



Efficiency
24.7%

Leading
Black Module
Efficiency



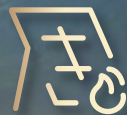
Anti
Shading

70%
Output Maintained
when Shaded¹



Class A
Fire Rating

Highest
Fire Safety
Report



Prevent
Overheating

60°C+
Lower Temperature
under Shade³



Loading
6000/3600Pa

High
Wind
Resistance



24.7%
MAX MODULE
EFFICIENCY

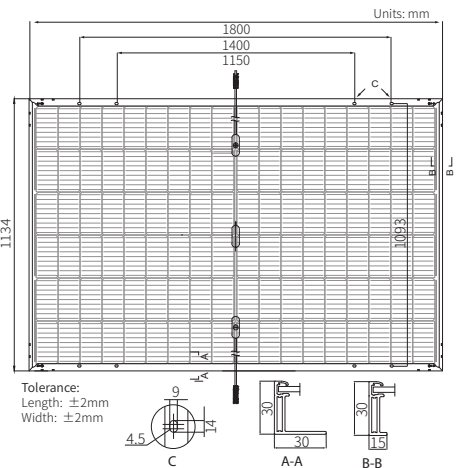
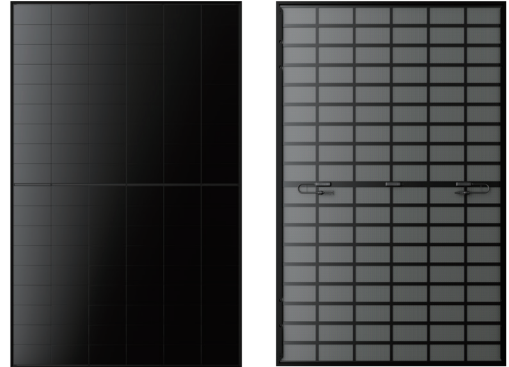
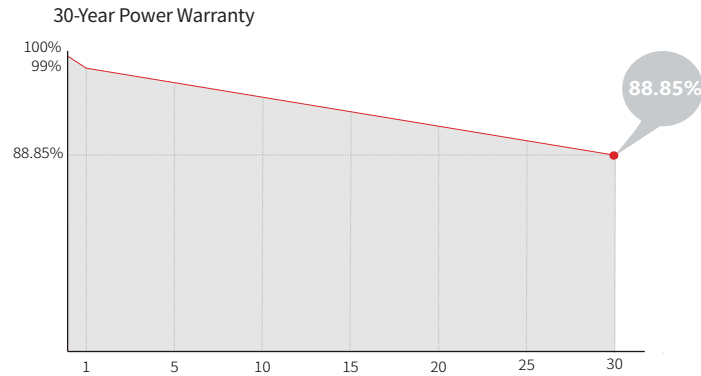
0~3%
POWER
TOLERANCE

<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	LR7-54HJBB-490M	LR7-54HJBB-495M	LR7-54HJBB-500M	LR7-54HJBB-505M
Testing Condition	STC	STC	STC	STC
Maximum Power (Pmax/W)	490	495	500	505
Open Circuit Voltage (Voc/V)	41.25	41.35	41.45	41.55
Short Circuit Current (Isc/A)	15.04	15.15	15.26	15.37
Voltage at Maximum Power (Vmp/V)	34.07	34.17	34.27	34.37
Current at Maximum Power (Imp/A)	14.38	14.49	14.59	14.69
Module Efficiency(%)	24.0	24.3	24.5	24.7

Electrical characteristics with different rear side power gain (reference to 500W front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
525	41.45	16.02	34.27	15.32	5%
550	41.45	16.78	34.27	16.05	10%
575	41.55	17.54	34.37	16.73	15%
600	41.55	18.31	34.37	17.46	20%
625	41.55	19.07	34.37	18.19	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 A

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

