

LONGi EcoLife

Define Roof Define Life

THE **smarter**
AWARD 

S10 Double Glass Premium Black
(LR7-54HJBB)

490~505M 247 W/m^2



Efficiency
24.7%

Leading
Black Module
Efficiency



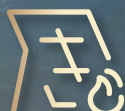
Anti
Shading

70%
Output Maintained
when Shaded¹



Class A
Fire Rating

Highest
Fire Safety
Report²



Prevent
Overheating

60°C+
Lower Temperature
under Shade³



Loading
6000/3600Pa

High
Wind
Resistance



24.7%

MAX MODULE
EFFICIENCY

1%

FIRST YEAR
POWER DEGRADATION

0.35%

YEAR 2-30
POWER DEGRADATION

-0.24%/°C

BETTER TEMPERATUR
COEFFICIENT

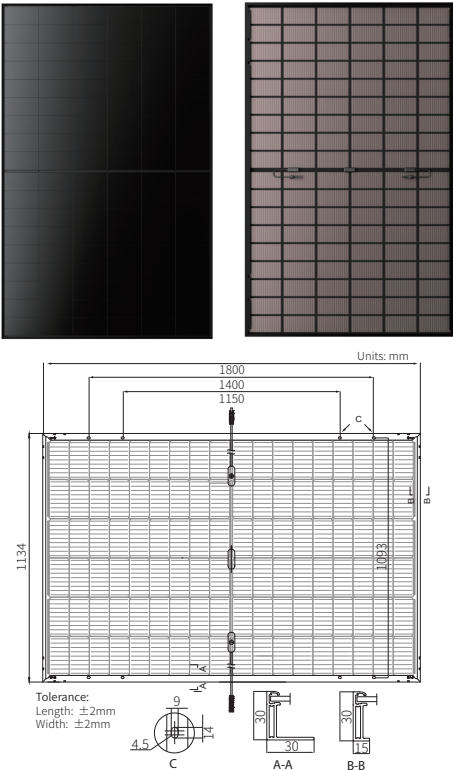
Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm²; +400/-200mm/±1200mm length can be customized
Glass	Dual glass, 2.0+1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5 kg
Dimension	1800×1134×30mm
Packaging	36pcs per pallet / 216pcs per 20'GP / 864pcs per 40'HC

Remark: 17.5m trucks are rated at 30t load. Actual loading quantity is subject to vehicle specs.

Electrical characteristics with different rear side power gain

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	16.78	15%
600	41.55	18.31	34.37	17.51	20%
625	41.55	19.07	34.37	18.24	25%



Electrical Characteristics

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

Operating Parameters

Module [T98] Max	70°C
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

Mechanical Loading

Min Designed Mechanical Load	1600Pa/1600Pa
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. This product has obtained Class A fire test report. Due to various test factors, consistent results in every test cannot be guaranteed; actual test results prevail.
3. 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. (BGV03 20260508)