

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



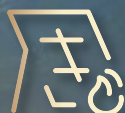
Anti
Shading

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

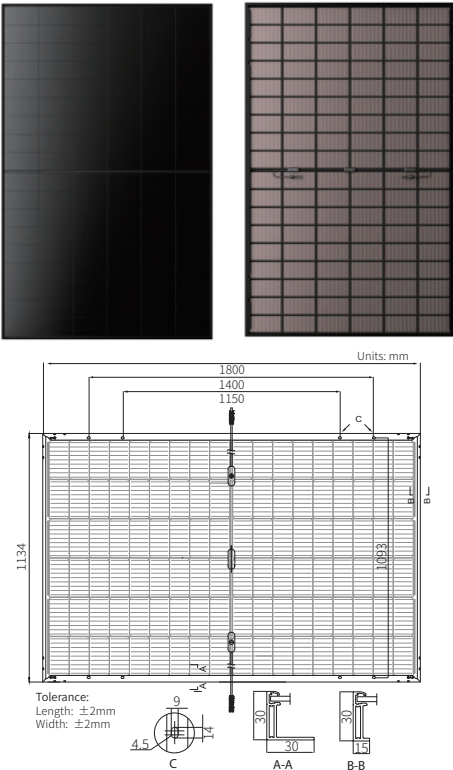
Mechanical Parameters

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

·STC: Irradiance1000W/m², Cell Temperature 25°C, AM1.5 (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

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