

LONGi EcoLife

Define Roof Define Life

THE **smarter**
AWARD 

S10 Double Glass
(LR7-54HJD)

495~510M 250 W/m^2



Leading
Module
Efficiency

Efficiency
25.0%



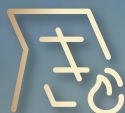
Anti
Shading

70%
Output Maintained
when Shaded¹



High
Wind
Resistance

Loading
6000/3600Pa



Prevent
Overheating

60°C+
Lower Temperature
under Shade²



25.0%

MAX MODULE
EFFICIENCY

1%

FIRST YEAR
POWER DEGRADATION

0.35%

YEAR 2-30
POWER DEGRADATION

-0.24%/°C

BETTER TEMPERATUR
COEFFICIENT

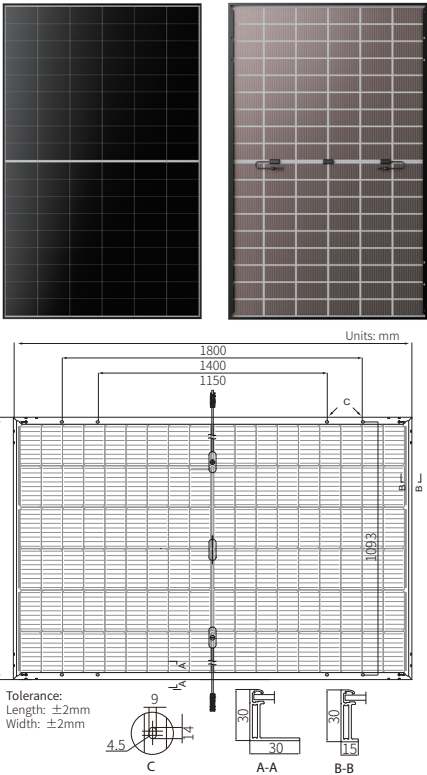
Mechanical Parameters

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
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%



Electrical Characteristics

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

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