Preliminary

LONGi SOLAR

LR7-54WVH

495~525M

Leading Innovation
Integrated Conductive Interconnection
Welding-free

Generational Leadership
Power Iteration Upgrade for Higher Energy Yield

Ultimate Reliability
Enhanced Crack Resistance
Superior Moisture Protection

Real Full Screen
Shingling+ Hidden Busbar Design

HPBC 2.0 | TaiRay | N-type

Monofacial Power Generation

15Y Product Warranty | **30Y** Performance Warranty

Complete System and Product Certifications

IEC 61215,IEC 61730

IEC62941:Guideline for module design qualification and type approval

ISO9001:Quality Management System

ISO14001:Environment Management System

ISO45001:Occupational Health and Safety

TÜVRheinland CERTIFIED | TÜV SÜD | CE | TIER 1 Bloomberg NEW ENERGY FINANCE

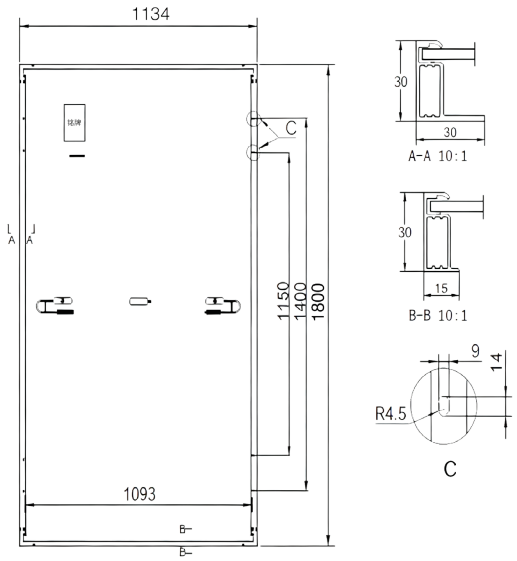


LR7-54WVH 495~525M

25.72%	1%	0.35%	-0.26%/℃
MAX MODULE EFFICIENCY	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	BETTER TEMPERATUR COEFFICIENT



Units: mm



Tolerance:
Length: ±2mm
Width: ±2mm

Mechanical Parameters

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm²;+400/-200mm/±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black anodized aluminum alloy frame
Weight	21.6 kg
Dimension	1800×1134×30mm
Packaging	37pcs per pallet / 222pcs per 20'GP / 888pcs per 40'HC

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

Electrical Characteristics

·STC: Irradiance1000W/m², Cell Temperature 25℃, AM1.5 (Test uncertainty for Pmax: ±3%)

Module Type	LR7-54WVH- 495M	LR7-54WVH-500M	LR7-54WVH- 505M	LR7-54WVH- 510M	LR7-54WVH- 515M	LR7-54WVH- 520M	LR7-54WVH- 525M
Testing Condition	STC	STC	STC	STC	STC	STC	STC
Maximum Power (Pmax/W)	495	500	505	510	515	520	525
Open Circuit Voltage (Voc/V)	40.52	40.63	40.74	40.85	40.96	41.07	41.18
Short Circuit Current (Isc/A)	15.48	15.56	15.64	15.72	15.80	15.88	15.96
Voltage at Maximum Power (Vmp/V)	33.61	33.72	33.83	33.94	34.05	34.16	34.27
Current at Maximum Power (Imp/A)	14.73	14.83	14.93	15.03	15.12	15.22	15.32
Module Efficiency (%)	24.25	24.50	24.74	24.99	25.23	25.48	25.72

Operating Parameters

Module [T98] max	70℃
Operational Temperature	-40℃ ~ +85℃
Power Output Tolerance	0~3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2℃
Protection Class	Class II
Fire Rating	IEC Class C

Mechanical Loading

Min Designed Mechanical Load	1600Pa/1600Pa
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/℃
Temperature Coefficient of Voc	-0.200%/℃
Temperature Coefficient of Pmax	-0.260%/℃

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*Specifications included in this datasheet are subject to change without notice.LONGi reserves the right of final interpretation. (BGV01 20260820)