



MODEL:
LFM-C550W

Products Features

-  **1500V** Higher system voltage, effectively reducing BOS costs
-  Lower operating temperature and coefficient for higher returns
-  Significantly reduce the impact of hot spot temperature and shadow covering
-  Half cell design for better mechanical load-bearing capacity
-  can withstand harsher environment

System & Product Certification

- IEC 61215 / IEC 61730
- ISO 9001: 2015
- ISO 14001: 2015
- ISO 45001: 2018

Product Certifications

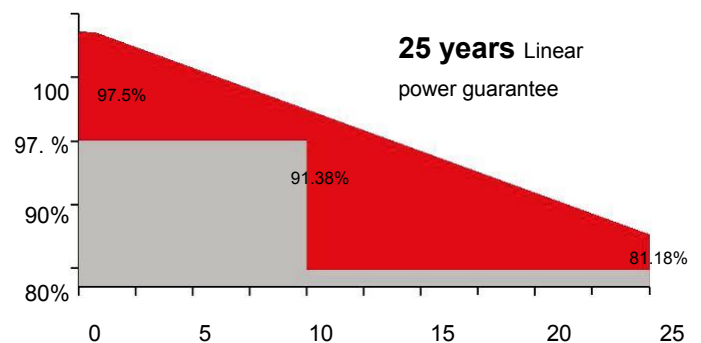


LFM is a leading supplier of solar cells and modules for residential, commercial and ground-mounted photovoltaic power generation systems. LFM uses rigorous design, advanced production process and fully automated production equipment to manufacture modules, while implementing strict quality inspection standards and constantly pursuing zero defects to ensure our solar module products have excellent power output and high reliability.

Product Guarantee

12 years Product quality and workmanship assurance

25 years Linear power guarantee



Electrical performance parameters

Component performance under STC standard (Tolerance: 0 ~ +3%)

Maximum rated power (Pmax/W)	550
Maximum power point voltage (Vmpp/V)	41.28
Maximum power point current (Impp/A)	13.33
Open Circuit Voltage (Voc/V)	49.80
Short circuit current (Isc/A)	14.01
Component efficiency η (%)	21.3

Component performance under NMOT standards

Maximum rated power (Pmax/W)	411
Maximum power point voltage (Vmpp/V)	38.63
Maximum power point current (Impp/A)	10.04
Open Circuit Voltage (Voc/V)	47.01
Short circuit current (Isc/A)	11.32
STC (Standard test environment) : Irradiance1000W/m ² , Battery temperature 25℃, Spectra AM1.5	NMOT (Nominal operating temperature of components) : Irradiance 800W/m ² , Environmental temperature20℃, SpectraAM1.5, Wind speed1m/s

Mechanical parameters

Cell Types	Monocrystalline
Cell Size	182*182mm
Cell Alignment	144 (6*24)
Component Quality	26.5kg
Component Size	2279*1134*30mm
Cable Length	300mm (11.81inches)
Cable cross-sectional area	4mm ² (0.006inches ²)
Front Glass	3.2mmCoated high transmission tempered glass
Bypass diode number	3
Packaging standards	
Frame	Anodized aluminum alloy
Junction Box	IP68

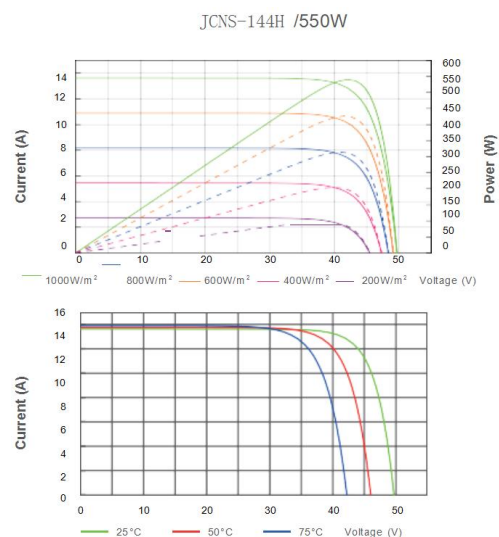
Working conditions

Maximum system voltage	1500V/DC(IEC)
Operating temperature	-40℃ ~ +85℃
Fusing current	25A
Static load	Snow Load : 5400Pa/ Wind Load: 2400Pa
Grounding resistance	≤0.1Ω
Security Level	II
Insulation resistance	≥100MΩ
Connectors	MC4

Temperature Characteristics

Temperature coefficient Pmax	-0.35%/℃
Temperature coefficient Voc	-0.26%/℃
Temperature coefficient Isc	+0.048%/℃
Battery operating temperature	43±2℃

I-V curve



Technical Diagram

