

FSOLAR NEO 50W

Solar Panel



BEYOND
IMAGINATION

www.fsolar.me.com

PRODUCT CHARACTERISTICS



Multiple Main Gate Technology

Better light utilization and current collection, effectively improve product power output and reliability.



Better Heat Spot Resistance

By optimizing circuit design and working current, better temperature coefficient and heat spot resistance are obtained.



Anti-pid Guarantee

The attenuation rate caused by PID phenomenon is minimized through battery production technology optimization and material control.



Adaptability to Harsh Environments

Third party certification through high salt spray and high ammonia corrosion test, suitable for high temperature and humidity, coastal, desert, lake and other harsh environment.



Super Mechanical Load

It can carry 5400Pa snow load
It can bear 2400Pa wind pressure



Excellent Product Materials

Excellent product material and process quality assurance



Linear Power Warranty

Linear attenuation of 0.55% per year for 25 years

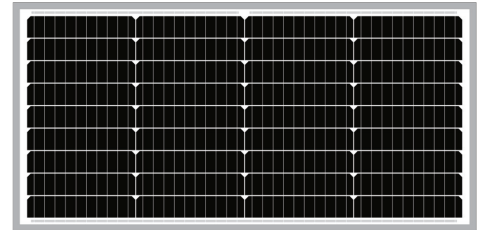


±3% Positive Tolerance

±3% Positive Tolerance

50W

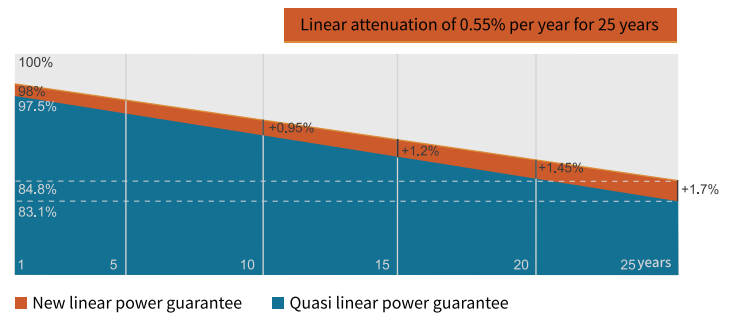
SOLAR PANEL MONO-CRYSTALLINE



COMPREHENSIVE SYSTEM AND PRODUCT CERTIFICATION

IEC61215(2016), IEC61730(2016)
ISO 9001:2015 / ISO Quality Management System
ISO 14001:2015 / Environmental Management System
ISO 45001: 2018 / International Occupational Health and
Safety Management System Certification

INDUSTRY-LEADING QUALITY ASSURANCE



Electrical Parameters Under STC

Solar Module Type	FSPV50W
Maximum Power at STC (Pmax) [W]	50
Open-Circuit Voltage (Voc) [V]	24.52
Optimum Operating Voltage (Vmp) [V]	21.71
Short-Circuit Current (Isc) [A]	2.55
Optimum Operating Current (Imp) [A]	2.30
Wafer Efficiency[%]	21.8

Standard test conditions (STC) : irradiance 1000W/m², battery temperature 25°C, AM1.5, power tolerance: ±3%

Mechanical Parameter

Cell type	MONO-CRYSTALLINE
Number of Cells	36 (9×4)
Component Size	385×780×25mm
Component Weight	3.33kg
Front Glass	3.2mm high permeability, anti-reflection coating tempered glass
Backboard	White
Component Frame	Anodized aluminium alloy
Wind Pressure/Snow Pressure	2400Pa/5400Pa
Packaging Information	400×795×120mm/4pcs

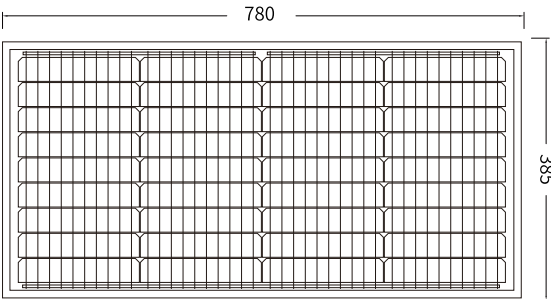
Electrical Property Parameter

Working Temperature	-40°C~+85°C
Maximum System Voltage	1000V DC
Maximum Fuse Rated Current	25A
Power Tolerance	±3%

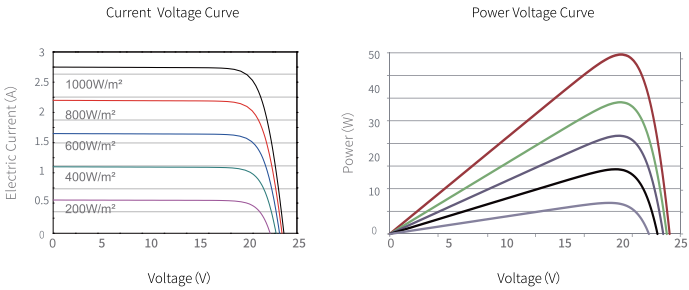
Temperature Characteristic

Temperature Coefficient(Pmax)	-0.34%/°C
Temperature Coefficient(Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C
Nominal Operating Temperature(NOTC)	45±2°C

Product Size



Characteristic Curve



- * 25-year quality assurance, 25-year linear output power guarantee
- * With the technical progress and product update, the technical parameters of the components of Blue Carbon may differ from the technical parameters contained in this specification. Blue Carbon has the right to adjust the technical parameters at any time without notifying the customer, and the final interpretation of the technical specification belongs to Blue Carbon.