

PV-SST-630

Bifacial N Type Mono-Crystalline Module

23.3%

Module efficiency up to



Features



16BB half-cut cell & N Type TOPCON technology

New circuit design, lower internal current, lower Rs loss

Ga doped wafer, attenuation $\leq 1\%$ (1st year) / $\leq 0.4\%$ (Linear)



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCOE

2% more power generation, lower LCOE



Excellent Anti-PID performance

3 times of industry standard Anti-PID test



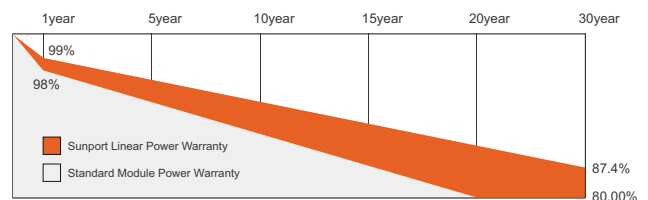
IP68 junction box

High waterproof level

Performance Warranty

12 year
Quality
Warranty

30 year
Performance
Warranty



Within the first year from the date of installation and normal operation, the output power shall not be less than 99% of the product's minimum output power as set forth in the specifications. Afterwards, maximum 0.4% output power decrease per year. After 30 years, the product's output power shall not be less than 87.4% of its minimum output power as set forth in the specifications.

Comprehensive Qualifications & Certifications

- ★ ISO 9001: 2015 Quality Management System
- ★ ISO 14001: 2015 Environment Management System
- ★ ISO 45001: 2018 Occupation Health Safety Management System
- ★ TUV NORD Certification



Spec/Model	Unit	PV-SST-630
Max-Power(Pm)	W	630
Power Tolerance	W	0~+5
Max-Power Voltage(Vm)	V	46.01
Max-Power Current(I _m)	A	13.69
Open-Circuit Voltage(Voc)	V	56.01
Short-Circuit Current(I _{sc})	A	14.37
Module Efficiency(η _m)	%	22.5
STC: AM=1.5, Irradiation 1000W/m ² , Module Temperature 25°C		

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	PV-SST-630
Max-Power(Pm)	W	480
Max-Power Voltage(Vm)	V	43.36
Max-Power Current(I _m)	A	11.08
Open-Circuit Voltage(Voc)	V	52.39
Short-Circuit Current(I _{sc})	A	11.82
NMOT: Irradiation 800W/m ² , Ambient temperature 20°C, Wind Speed 1m/s		

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.29% /°C
Temperature coefficient of Voc	-0.25% /°C
Temperature coefficient of I _{sc}	0.045% /°C

Mechanical Characteristics

Dimension(L×W×H)	2465mm×1134mm×30mm
Weight	34.6kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /2.0mm
Solar Cell	156(6x26)/N Type Mono/182*91mm/Φ247mm
Encapsulant	POE/EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP68
Cable	4mm ² ; 300mm or Customized Length
Connector	MC4 Compatible

Operating Conditions

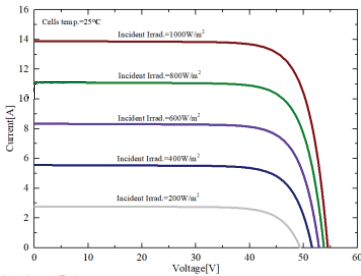
Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	30A
Operating Temperature Range	-40°C ~ +85°C
Mechanical Load	5400Pa (front) /2400Pa(rear)
Max Allowable Hail Load	Φ25mm hail, from 1m of distance at 23m/s
Application Class	Class A

Package

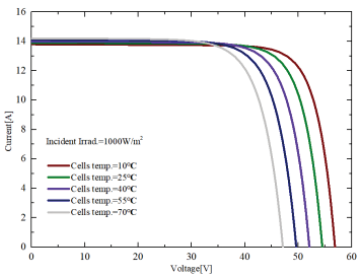
Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	40'HQ	576	36
Platform Trailer	13m	720	36
Platform Trailer	17.5m	936	36

I-V Curve

I-V Curves of PV-SST-630 at different irradiance



I-V Curves of PV-SST-630 at different cell temperature



Module Size

