

SPM530-560

Solar Panel Module Monocrystalline 530-560W

Adopts Mono Crystalline PERC cell technology, the product has better low irradiation performance and temperature coefficient performance, which improved the module generation and system revenue, and has more excellent power generation capacity and higher reliability.

144

CELLS



Micro-crack
Free



PID
Resistant



German
Engineering



Tier 1 Choice
of Materials



Salt Mist and Ammonia
Corrosion Resistant



GERMAN QUALITY

Sunstone solar panels are made from top grade materials, automated robotic lines, German technology and standards, making the quality difference.

Reliable Quality

- IEC61215, IEC61730(2016), IEC TS 62804-1-1:2020 (Anti PID)
- ISO 9001:2008 Quality management systems
- ISO 14001:2004 Environmental management systems
- BS OHSAS 18001: 2007 Occupational health and safety management system
- Positive power tolerance: 0~+5W
- 100% Triple EL inspection ensure free of defects

PLUS SORTING

0~+5W positive sorting system to assure high output.

STABLE& STRONG

Capable to bear heavy snow loads up to 5400pa and wind loads up to 2400pa.

SPECIFICATIONS

Module t	SPM530		SPM535		SPM540		SPM550		SPM560	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax)	530W	400W	535W	404W	540W	407W	550W	414W	560W	418W
Open Circuit Voltage (Voc)	49.15V	46.13V	49.35V	46.26V	49.55V	46.38V	49.95V	46.63V	50.10V	47.11V
Short circuit Current (Isc)	13.74A	10.99A	13.82A	11.03A	13.89A	11.08A	14.05A	11.17A	14.10A	11.40A
Peak Power Voltage (Vmpp)	41.27V	38.55V	41.45V	38.76V	41.62V	38.95V	41.97V	39.21V	42.25V	39.25V
Peak Power Current (mpp)	12.85A	10.38A	12.91A	10.43A	12.98A	10.46A	13.11A	10.53A	13.26A	10.67A
Component Efficiency (%)	20.50%		20.70%		20.90%		21.30%		21.70%	

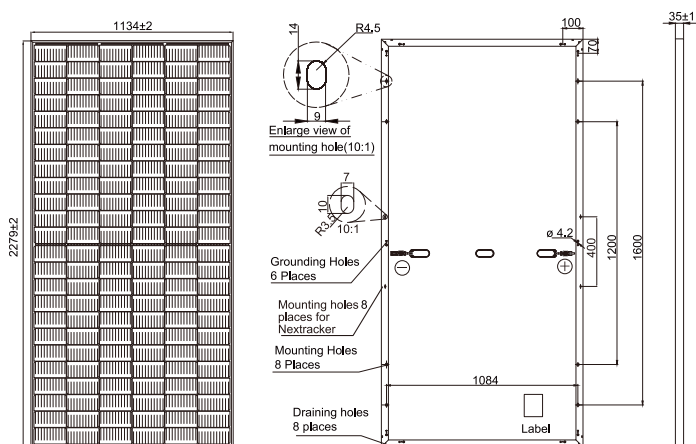
STC(Standard Testing Conditions): Irradiance 1000W/m², CellTemperature 25°C, AM1.5

NMOT(Nominal Moudule Operating Temperature): Irradiance 800W/m², AmbientTemperature 20°C, Wind Speed 1m/s

Temperature Characteristics

Standard Working Temperature (NMOT)	45±2°C
Peak Power Temperature Coefficient	-0.350%/°C
Temperature Coefficient of Open Circuit Voltage	-0.276%/°C
Short-circuit Current Temperature Coefficient	+0.046%/°C
Working Temperature	-40°C to~+85°C
Maximum System Voltage	DC1500V(IEC)
Maximum Fuse Rating	25A
Power Tolerance	0~+5W

Module Dimensions(mm)



Specifications in this datasheet are subject to change without prior notice.

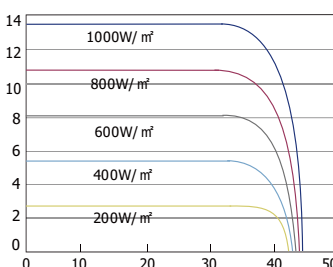
Mechanical Data

Cell Type	182x91mm Mono
Cell Orientation	144(6x24)
Module Dimension	2279x1134x35mm
Weight	28.5kg±3%
Front	3.2mm Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes)
Connecting Cable	4.0mm ² 300mm (+)/ 300mm (-) Length can be customized
Plug Connecton	MC4 compable connector
Maximum Mechanical Load	Front 5400Pa/Back 2400

I-V Curvve

Current-Voltage Curvve (540W)

Curent (A)



STC

- Irradiance 1000W/m²
- Cell Temperature 25°C
- AM=1.5

NMOT

- Irradiance 800W/m²
- Ambient Temperature 20
- Wind Speed 1m/s
- AM=1.5

Packing

Configuration

Modules per Pallet: **31pcs**

Modules per 40' HQ Container: **620pcs**