



SOLAR PANEL

N-Type TOPCon 580W

Introducing our latest 580W solar panel, a powerhouse of energy generation with superior output capabilities. Engineered for optimal performance, it excels in power generation under shadows, offers robust anti-hot spot ability, and boasts a strong mechanical load capacity for durability in challenging conditions. With a super strong frame design accounting for 10% increased strength and a system voltage of 1500V, this solar panel ensures stability, reliability, and efficiency for long-term energy production.



High Output Power



Better Power Generation Under Shadows



Strong Anti-Hot Spot Ability



N-Type TOPCon monocrystalline silicon PV modules



Strong Mechanical Load Capacity



10% Super Strong Frame



1500V System Voltage



Local Support

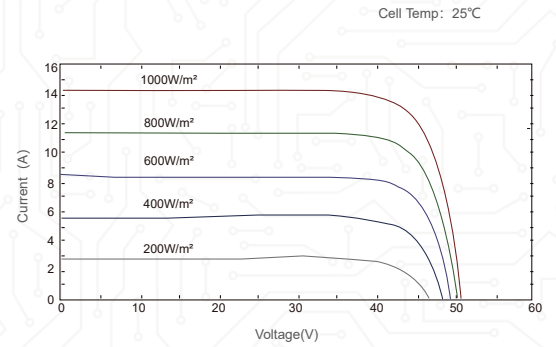
SPECIFICATIONS

Model	580W	
	STC	NOCT
Maximum Power At STC (Pmax)	580W	437.8W
Short Circuit Current (Isc)	14.33A	11.64A
Open Circuit Voltage (Voc)	51.32V	48.61V
Maximum Power Current (Impp)	13.56A	11.00A
Maximum Power Voltage (Vmpp)	42.78V	39.79V
Module Efficiency	22.5%	
Power Tolerance	0 - +5 W	
Maximum System Voltage	VDC 1500V	
Maximum Series Fuse	25 A	
Increased Snowload Acc. to IEC 61215	5400 Pa	
Operating Temperature	-40~ +85 °C	
Number of Bypass Diodes	3	
Nominal Operating Cell Temperature (Noct)	45 °C +/- 2 °C	
Temperature Coefficient of Pmax	- 0.30% °C	
Temperature Coefficient of Voc	- 0.25% °C	
Temperature Coefficient of Isc	0.046% °C	
Mechanical Specification		
Cell Type	N-Type Mono Crystalline 182x91mm	
Number of Cells	144 (6x24)	
Dimensions (AxBxC)	2278x1134x35mm	
Weight	29.0 kg	
Glass	3.2mm Tempered Low Iron Glass	
Aluminum Frame	Anodised Aluminium	
Junction Box	Split Junction Box (IP68, Three diode)	
Connector	Mc4 Compatible	
Output Cables	4.0mm ² , +300mm, -300mm	

STC: 1000W/m² irradiance, 25 °C cell temperature, AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20 °C, wind speed 1m/s

CHARACTERISTICS

I- V-Curves at Different Irradiances



Power voltage current curve at different temperature

