



# SOLAR PANEL

## N-Type TOPCon 420W

Introducing our latest 420W 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

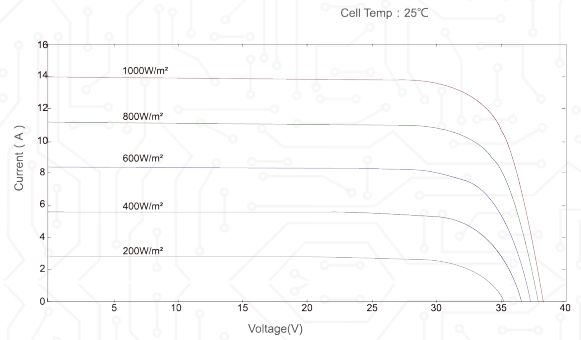
# SPECIFICATIONS

Model	420W	
	STC	NOCT
Maximum Power At STC	420 W	317.0 W
Short Circuit Current (Isc)	14.02 A	11.39 A
Open Circuit Voltage (Voc)	38.26 V	36.23 V
Maximum Power Current	13.26 A	10.76 A
Maximum Power Voltage	31.69V	29.45V
Module Efficiency	21.5%	
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	45 °C +/- 2 °C	
Temperature Coefficient of	- 0.30% °C	
Temperature Coefficient of Voc	- 0.25% °C	
Temperature Coefficient	0.046% °C	
Mechanical Specification		
Cell Type	N-Type Mono Crystalline 182x91mm	
Number of Cells	108 (6x18)	
Dimensions (AxBxC)	1722x1134x30mm	
Weight	21.5 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 <sup>2</sup> , +300mm, -300mm Customized	

STC: 1000W/m<sup>2</sup> irradiance, 25 °C cell temperature, AM1.5. NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20 °C, wind speed 1m/s

# CHARACTERISTICS

I- V-Curves at Different Irradiances



Power voltage current curve at different temperature

