Technology & Quality

- A complete photovoltaic industry chain Beyondsun group have a complete photovoltaic industry chain including crystalline wafer, solar cells, solar modules and photovoltaic system applications.
- Top quality We guarantee our products above 90% power output in 10 years and above 80% in 25 years, working life over 25 years.



Features

- High-efficiency solar cell ensures high performance of solar module and create more power in peak hours
- Anti-reflecting coating and high-transmission rate glass increase the power output and mechanical strength of solar module
- Torsion and corrosion-resistant anodized frame ensures dependable performance, even through harsh weather conditions
- Lightweight and pre-drilled mounting holes for easy installation
 - Water-resistant junction box
- Designed specially to meet our customer demands for residential, commercial and industrial use







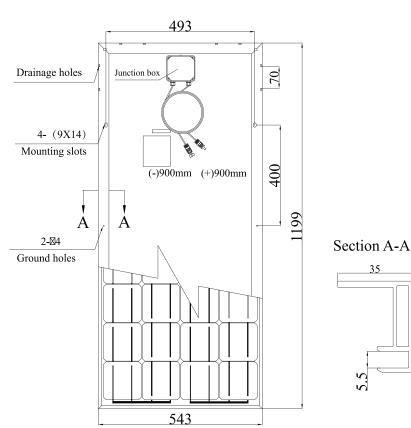


Mechanical Characteristics

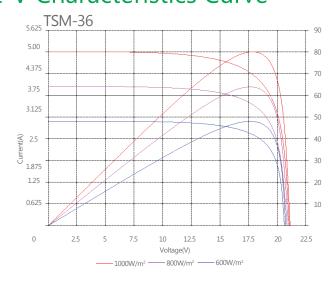
Type of Cell	Poly-Crystalline 125x125mm / 165mm Diagonal
Cells Array and Number	4 x 9 (36pcs)
Dimensions	1199 x 543 x 40mm
Weight	7.2kg
Front Glas	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Encapsulation	Glass/EVA/Cells/EVA/TPT
Relativ	0 to 100%
Resistance	227g steel ball fall down from 1m height and 60m/s Wind
Snow load parameters	2400Pa

Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45°C ± 5°C
Temperature Coefficient of Pmax	-(0.431±0.05)%/K
Temperature Coefficient of Voc	-(0.355±0.01)%/K
Temperature Coefficient of Isc	(0.024±0.01)%/K
Maximum Series Fuse/current rating	6A



I-V Characteristics Curve



Electrical Characteristics

Electrical Characteristics						
Characteristics	TSM080	TSM090	TSM095	TSM100		
Open-Circuit Voltage (Voc)	21.19V	21.41V	21.52V	22.61V		
Optimum Operating Voltage (Vmp)	17.79V	17.87V	17.91V	18.11V		
Short-Circuit Current(Isc)	5.00A	5.51A	5.81A	5.90A		
Optimum Operating Current (Imp)	4.50A	5.04A	5.31A	5.53A		
Maximum Power at STC (Pmax)	80W	90W	95W	100W		
Module Efficiency	12.29%	13.82%	14.59%	15.36%		
Operating Temperature	-40°C to +85°C					
Maximum System Voltage	1000V DC					

0/+3%Power Tolerance

STC:Irradiance 1000W/m², Module temperature 25°C, AM=1.5