

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



















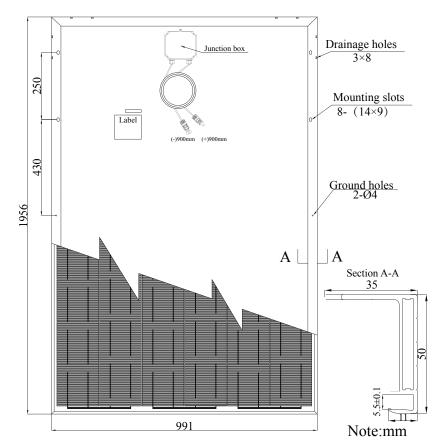


Mechanical Characteristics

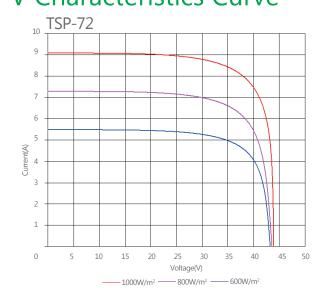
Type of Cell	Poly-Crystalline 156 x 156mm			
Cells Array and Number	6 x 12 (72pcs)			
Dimensions	1956 x 991 x 50mm			
Weight	27.5kg			
Front Glas	4mm Tempered Glass			
Frame	Anodized Aluminium Alloy			
Encapsulation	Glass/EVA/Cells/EVA/TPT			
Relativ	0 to 100%			
Resistance	227g steel ball fall down from 1m height and 60m/s Wind			
Snow load parameters	5400Pa			

Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	50°C ± 2°C
Temperature Coefficient of Pmax	-(0.410±0.05)%/K
Temperature Coefficient of Voc	-(0.320±0.01)%/K
Temperature Coefficient of Isc	(0.050±0.01)%/K
Maximum Series Fuse/current rating	15A



I-V Characteristics Curve



Electrical Characteristics

Characteristics	TSP280	TSP285	TSP290	TSP295	TSP300	TSP305
Open-Circuit Voltage (Voc)	43.20V	43.20V	43.80V	43.80V	43.80V	43.80V
Optimum Operating Voltage (Vmp)	36.00V	36.00V	36.50V	36.50V	36.50V	36.50V
Short-Circuit Current(Isc)	8.71A	8.87A	8.90A	9.05A	9.21A	9.36A
Optimum Operating Current (Imp)	7.78A	7.92A	7.95A	8.21A	8.22A	8.36A
Maximum Power at STC (Pmax)	280W	285W	290W	295W	300W	305W
Module Efficiency	14.4%	14.7%	15.0%	15.2%	15.5%	15.7%

Operating Temperature -40° C to $+85^{\circ}$ C

Maximum System Voltage 1000V DC

Power Tolerance 0/+3%

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