

TSM-F72 190Watt-195Watt-200Watt-205Watt-210Watt

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 10years and above 80% in 25years, working life over 25years.

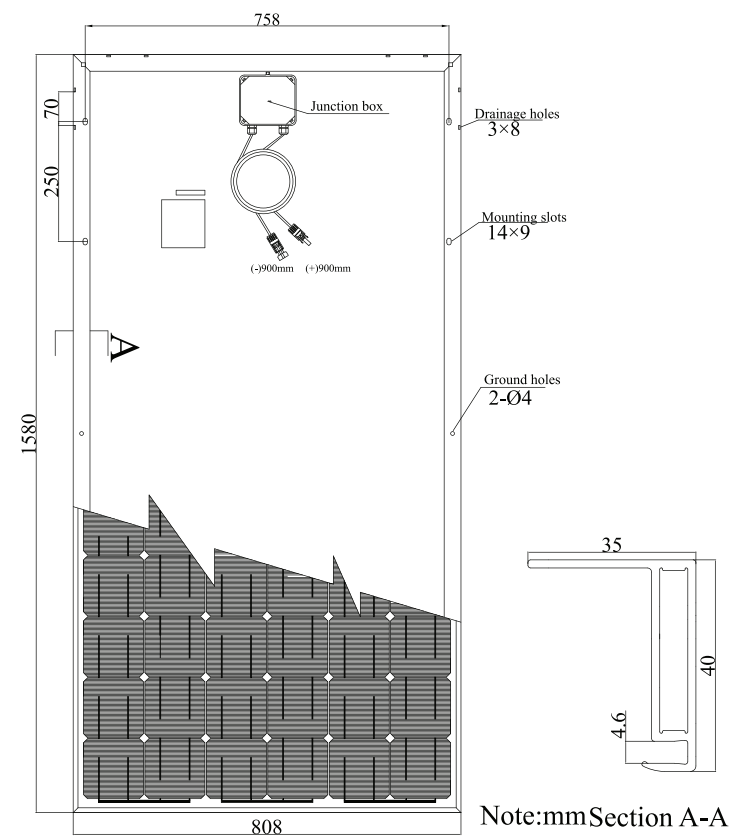
Features

- 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

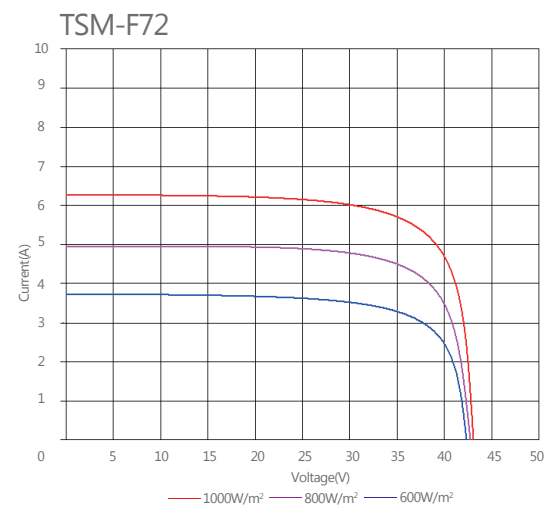
Type of Cell	Mono-Crystalline 125 x 125mm
Cells Array and Number	6 x 12 (72pcs)
Dimensions	1580 x 808 x 40mm
Weight	17.3kg
Front Glas	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Encapsulation	Glass/EVA/Cells/EVA/TPT
Relativ	0 to 100%
Resistance	227g steel ball fall down from 1m height and 60m/s Wind
Snow load parameters	5400Pa



Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	50°C ± 2°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	15A

I-V Characteristics Curve



Electrical Characteristics

Characteristics	TSM190	TSM195	TSM200	TSM205	TSM210
Open-Circuit Voltage (Voc)	43.20V	43.20V	43.20V	43.80V	43.80V
Optimum Operating Voltage (Vmp)	36.00V	36.00V	36.00V	36.50V	36.50V
Short-Circuit Current(Isc)	5.91A	6.07A	6.22A	6.29A	6.44A
Optimum Operating Current (Imp)	5.27A	5.42A	5.56A	5.62A	5.75A
Maximum Power at STC (Pmax)	190W	195W	200W	205W	210W
Module Efficiency	14.9%	15.3%	15.7%	16.1%	16.5%
Operating Temperature	- 40°C to + 85°C				
Maximum System Voltage	1000V DC				
Power Tolerance	0 / +3%				
STC:Irradiance 1000W/m ² , Module temperature 25°C, AM=1.5					