

Poly-Crystalline Solar Module

Technology & Quality

- ▶ A complete photovoltaic industry chain
The Solarever Group has a complete photovoltaic industry chain including crystalline wafer, solar cells, solar modules and photovoltaic system applications.
- ▶ Top quality
Provision of material and process insurance for 15 years
We guarantee our products above 90% power output in 10 years and above 80% in 20 years, working life over 25 years.



SE-78*052-P-36

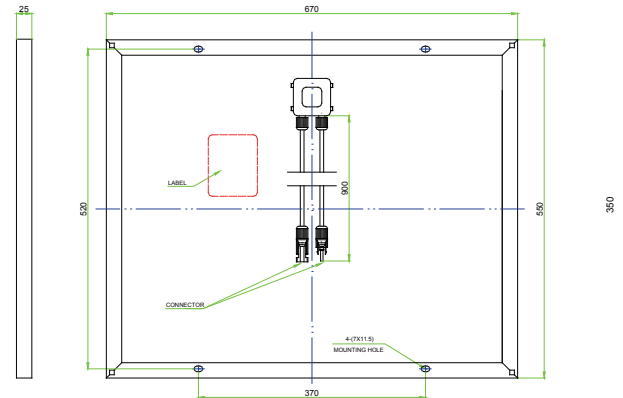
45-50-55 Watts

Leading Features

- ▶ High-efficiency solar cell ensures high performance of solar module and creates 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

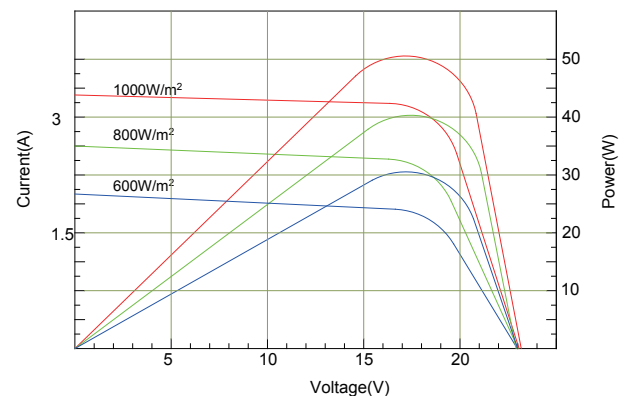
Type of cell	Poly-Crystalline 156x52mm
Cells Array and Number	4x9(36pcs)
Dimensions	670x550x25mm
Weight	5.2Kg
Front Glass	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Encapsulation	Glass/EVA/Cells/EVA/TPT
Relative Humidity	0 to 100%
Resistance	227g steel ball fall down from 1m height and 60m/s wind
Snow load parameters	2400Pa



Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)	45 °C ± 5 °C
Temperature Coefficient of Pmax	-(0.410 ± 0.05)%/K
Temperature Coefficient of Voc	-(0.320 ± 0.01)%/K
Temperature Coefficient of Isc	+(0.050 ± 0.05)%/K
Maximum Series Fuse/current rating	5A

I-V Characteristics Curve



Electrical Characteristics

Characteristics	45W	50W	55W
Open-Circuit Voltage(Voc)	21.39V	21.62V	22.65V
Optimum Circuit Voltage(Vmp)	17.25V	17.44V	18.12V
Short-Circuit Current(Isc)	2.78A	3.06A	3.24A
Optimum Circuit Current(Imp)	2.60A	2.86A	3.03A
Maximum Power at STC(Pmax)	95W	100W	105W
Module Efficiency	12.21%	13.57%	14.93%
Operating Temperature	-40 °C to +85 °C		
Maximum System Voltage	600V DC		
Power tolerance	±3W		
STC: Irradiance 1000W/m², Module temperature 25 °C, AM=1.5			