

# 100 Watt SOLAR MODULE



- ◆◆ Tested To UL:1703
- ◆◆ CSA certified
- ◆◆ Resistance to salt mist and ammonia corrosion
- ◆◆ Performance tests under extreme conditions
- ◆◆ Wind and snow load testing

## ◆◆ Key Features



**Higher Energy Efficiency**  
Polycrystalline technology harnesses reflected light.



**Improved Performance in Low Light**  
Optimal operation in low irradiation conditions.



**PID Protection**  
Minimized power loss due to degradation effects.



**High Climate Resilience**  
Wind load resistance of 2400Pa and snow load resistance of 5400Pa.



**Longer Lifespan**  
25-year warranty with over 85% power output.



**Easy Installation & Compatibility**  
Lightweight design for easier handling and installation.



# 100 Watt SOLAR MODULE

## > Electrical Parameters at STC

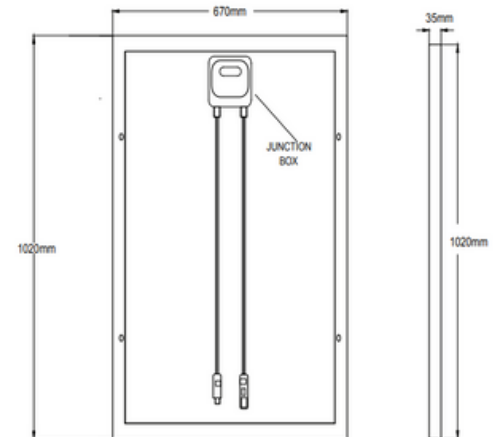
Peak Power	P <sub>max</sub> (W)	100
Maximum Power Voltage	V <sub>mp</sub> (V)	18.0
Maximum Power Current	I <sub>mp</sub> (A)	5.56
Open-circuit voltage	V <sub>oc</sub> (V)	21.9
Short-circuit current	I <sub>sc</sub> (A)	6.13
Module Efficiency	η(%)	14.63

Values at standard test conditions STC (Air mass AM 1.5, Irradiance 1000W/sqm, Cell temperature 25°C)  
Power Measurement Tolerance: 0 / +3%

## > Mechanical Data

Solar Cell (Type / Dimension)	Poly-crystalline solar cells / 156 x 104 mm
Cell (Quantity / Orientation)	36 cells / 4 x 9
Module Dimension (L x W x H)	1020 X 670 X 35 mm
Weight	8.9 kg
Frame (material)	Anodized aluminum
Front glass (material/ thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	Fluoropolymer coating / PET / polyolefin
Mechanical Load	Wind/Snow 2400/5400 Pa, Hail 23m/s, 7.53g
Junction Box (protection degree)	≥IP 65
Junction Box (diode)	Two (2) bypass diodes
Output Cables (Length/cross-sectional area)	900 mm length, 10 AWG PV cable, UV protected
Connector (type / protection degree)	MC4 / IP68 rated

## > Mechanical Drawing



## > Temperature Coefficients

Nominal Operating Cell Temp. (NOCT)	45 +/- 2 °C
Voltage Temperature Coefficient (VOC)	-0.31% / °C
Current Temperature Coefficient (Isc)	0.033% / °C
Power Temperature Coefficient (Pmax)	-0.42% / °C

## > Maximum Ratings

Operational Temperature	-40°C to +85°C
Maximum System Voltage	600VDC
Max Series Fuse Rating	15A

## > Warranty & Certifications

Certification	Tested to UL 1703
Fire Rating	Type 2
Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Material

## > I-V Curve

