

SPV100-36M

100W Monocrystalline Solar Panel

Key Features

Sleek design and a durable frame, the 100 Watt 12 Volt Monocrystalline Panel provides you with the highest efficiency per area and is the perfect item for off-grid applications.

- High module conversion efficiency
- Top ranked PTC rating
- Quick and inexpensive mounting
- 100% Testing on all modules
-

Potential Uses

The 100 Watt Monocrystalline Panel can be used in various off-grid applications that include 12 and 24 volts arrays, water pumping systems, signaling systems and other off-grid applications.



Power Output Warranty



Material and Workmanship Warranty

SPV100-36M

100W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	100 W
Optimum Operating Voltage (V_{mp})	18.5 V
Optimum Operating Current (I_{mp})	5.41 A
Open Circuit Voltage (V_{oc})	22.5 V
Short Circuit Voltage (I_{sc})	5.92 A
Module Efficiency	15.47%
Maximum System Voltage	1000V
Series Fuse	15 A

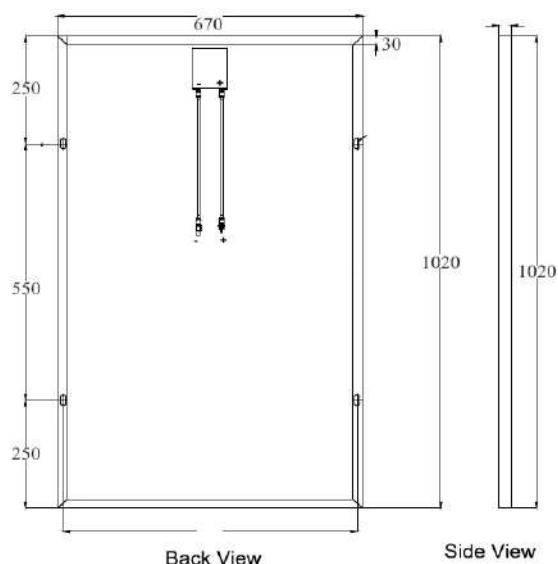
Thermal Characteristics

Operating Module Temperature	-40°C to +80°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

Junction Box

IP Rating	IP 65
Diode Type	HY 10SQ050
Number of Diodes	2 Diode(s)
Output Cables	12 AWG (2.10 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline
Number of Cells	36 (4 x 9)
Dimensions	(1020 x 670 x 35mm)
Weight	(8.1 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

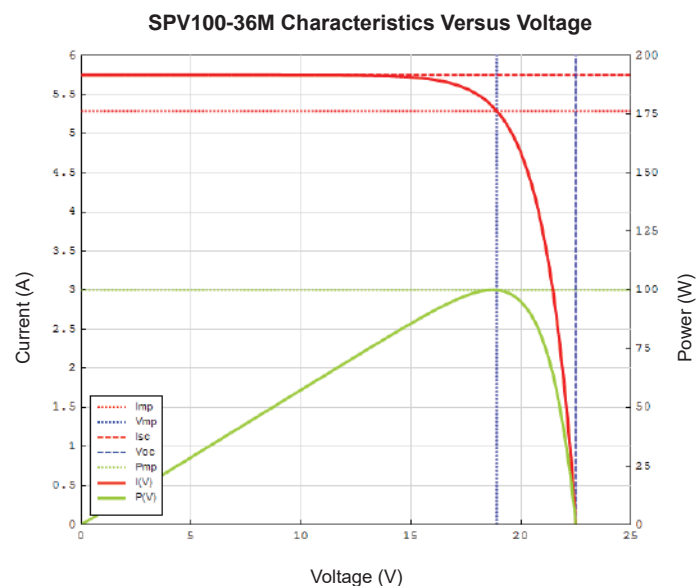
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



IV-Curve



*All specifications and data described in this data sheet are tested under Standard Test Conditions (STC - Irradiance: 1000W/m², Temperature: 25°C, Air Mass: 1.5) and may deviate marginally from actual values.