



ES-POLY 100

Polycrystalline Photovoltaic Module

Suitable for all small scale photovoltaics systems.
Capability of charging batteries 12-24-48 V with compatible charge controller.

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 156x156 mm (6 inch)
Nr. of Cells	36 (9x4)
Dimensions	1200 * 670 * 34 mm
Weight	12 kg
Front	Glass 3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	105 * 78 * 25 mm
Mechanical Load Test	5400Pa
Resistance	277g steel ball free fall from 1m height and 60m/s wind

Electrical Characteristics

Optimum Operating Voltage (Vmp)	17.7 V
Optimum Operating Current (Imp)	5.64 A
Open Circuit Voltage (Voc)	21.4 V
Short Circuit Current (Isc)	6.5 A
Maximum Power at STC (Pmax)	100 W
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1000 V DC
Maximum Series Fuse Rating	10 A
Power Tolerance	+ 2,5%

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45° +2°C
Temperature Coefficient of Pmax	-0.46 %/°C
Temperature Coefficient of Voc	-0.35 %/°C
Temperature Coefficient of Isc	0.05 %/°C

* Specifications could be subject to change without any prior notice.
* ECO//SUN is not responsible for any print errors
* This version replaces all previous ones

Dimensions

