

3Watt Photovoltaic Module (12V)

The 3w solar panel (12V) offers superior performance, durability, and reliability for a variety of electrical power requirements.

Technical Specification:

Performance	Data
Rated Power [Pmax]	3W
Power Tolerance	±5%
Nominal Voltage	12V
Limited Warranty	25 years

Configuration
Framed module with output cables and polarized Multicontact (MC) connectors



Electrical Characteristics	Data
Maximum power [Pmax]	3W±0.1W
Voltage at Pmax [Vmp]	16.5V±0.3V
Current at Pmax [Imp]	0.185A±0.01A
Short-circuit current [Isc]	0.197A±0.1A
Open-circuit voltage [Voc]	19.2V±0.5V
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of Voc	-(160±10)mV/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20 °C;Sun 0.8kW/m2;wind 1m/s)	47±2 °C
Maximum system voltage	1000V

Dimensions and Weight	Data
Length	177mm ± 0.20
Width	182mm ± 0.20
Depth	25mm ±0.10
Weight	0.48 kg



Clean Energy International

4261305 Canada Inc.

121 Sir Guy Carleton Street
Ottawa Ontario, CANADA K1M 0G6

info@cleanenergyinternational.com

Tel. +613-842-0320

Fax +613-842-0702

Parts	Specification
Solar Cells	33 cells (52mm x 12mm) in a 3X11 matrix connected in series
Construction	Front: High-transmission 3.2mm tempered glass; Back: TPT; Encapsulant: EVA
Frame	Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver

Note: During the stabilization process that occurs during the first few months of deployment, module power may decrease by up to 3% from typical Pmax.

Qualification Test Parameters	Data
Temperature cycling range	-40°C to +85°C (-40°F to 185°F)
Humidity freeze, damp heat	85% RH
Static load front and back (e.g. wind)	50psf (2400 pascals)
Front loading (e.g. snow)	113psf (5400 pascals)
Hailstone impact	25mm (1 inch) at 23 m/s (52mph)