

1 Watt Photovoltaic Module

The 1w solar panel offers superior performance, durability, and reliability for a variety of electrical power requirements.

Technical Specification:



Performance	Data
Rated Power [Pmax]	1W
Power Tolerance	±5%
Nominal Voltage	18V
Limited Warranty	1year

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

Electrical Characteristics	Data
Maximum power [Pmax]	1.08W±0.5W
Voltage at Pmax [Vmp]	18V±0.3V
Current at Pmax [Imp]	60mA±3mA
Short-circuit current [Isc]	65mA±3mA
Open-circuit voltage [Voc]	21V±0.8V
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of Voc	-(160±10)mV/ °C



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Temperature coefficient of power	$-(0.5 \pm 0.05)\% / ^\circ\text{C}$
NOCT (Air 20 °C; Sun 0.8kW/m ² ; wind 1m/s)	47 ± 2 °C
Maximum system voltage	1000V

Dimensions and Weight	Data
Length	125mm ± 0.20
Width	115mm ± 0.20
Depth	25mm ± 0.10
Weight	0.3kg

Parts	Specification
Solar Cells	36 cells (3.7mm x 51.5mm) in a 2X18 matrix connected in series
Output Cables	DCEYH (4mm ²) cable with polarized weatherproof DC rated Multicontact connectors: Lengths: 2000mm
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)