

SP50P

POLY-CRISTALLINE SOLAR MODULE 12V

36 CELLS 156x63mm



With a power output ranging from 10W up to 150W our off-grid solar panels are very versatile, and can be used on camping vans, mountain huts, boats and for every other off-grid application.

Our off-grid panels also ensure high performances even when it comes to generating electricity at low voltage (12V), and are therefore particularly suitable for public lighting.

These panels represent the ideal choice for installations in secluded or isolated areas.



High reliability with guaranteed
0 to +5W power output tolerance



30 Year Linear Power Warranty
12 Year Product Warranty



Excellent performance
under different light
conditions



IP65 JUNCTION BOX
Able to withstand the most varied
atmospheric conditions



Passing mechanical load test of
5400 Pa to withstand heavier snow
load and 2400 Pa to withstand
wind pressure



Compact and ultra-light aluminum
frame with 30mm thickness to
handle the panel in a easier way



ELECTRICAL CHARACTERISTICS (STC)*

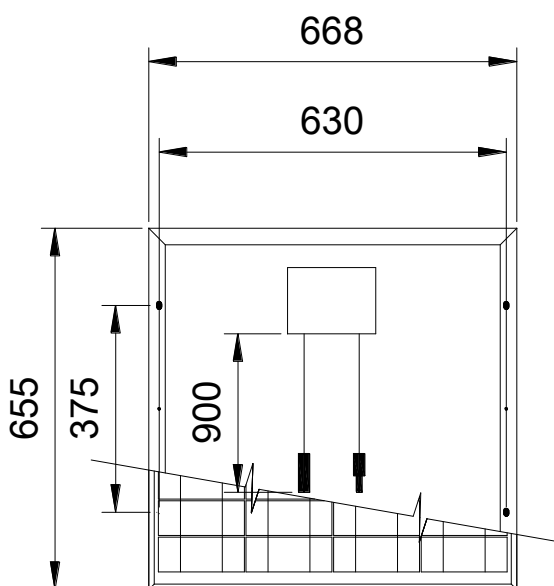
	SP50P
Nominal Output (Pmax) [W]	50
Flash Test Power Classification [W]	0 / +5
Voltage at Pmax (Vmp) [V]	17.72
Current at Pmax (Imp) [A]	2.83
Open Circuit Voltage (Voc) [V]	21.26
Short Circuit Current (Isc) [A]	3.17
Maximum System Voltage [V]	1000
Maximum Series Fuse Rating [A]	14.13
Cell Efficiency [%]	11.43

STC* (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

MECHANICAL CHARACTERISTICS

Solar Cells	36(4x9) poly-crystalline cells 156x63 mm
Font Cover	3.2 mm thick, low iron tempered glass
Back Cover	TPT (Tedlar-PET-Tedlar)
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Diodes	3 Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 500 mm / Section: 4.0 mm ²
Dimensions	655 x 668 x 30 mm
Weight	4.9 kg
Max. Load	Certified to 5400 Pa

DIMENSIONS



TEMPERATURE CHARACTERISTICS

NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.43 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40°C ~ +85°C

NOCT**: Nominal Operation Cell Temperature Sun 800W/m²; Air 20°C; Wind speed 1m/s

PACKING CONFIGURATION

Box dimensions	675 x 680 x 40 mm
Pieces per pallet	1 pcs
Weight	5kg

* Pallets can be stacked up to two

CURRENT / VOLTAGE CHARACTERISTICS

