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Solar Panel Guide Specification Data Sheet

Sollatek (UK) Ltd.

SP110-140-PS

SP120PS

Also available on the web at
EnergyPal.com/sollatek-uk-ltd-solar-panels/sp120ps

SOLLATEK SP110PS, 120PS, 130PS, 135PS, 140PS 12V PHOTOVOLTAIC MODULE

Models :

SP110PS, 120PS, 130PS, 135PS, 140PS

General:

Solar cells directly convert sunlight into electricity by means of the photovoltaic effect. This occurs when photons are absorbed by a solar cell which generates a voltage across its terminals. Cells are connected in series within a solar module to provide sufficient voltage to operate a system. Modules can be connected in series and parallel to increase the system power. This solid state process provides a clean, silent, non-polluting and reliable source of electrical energy.

Sollatek's high efficiency solar modules are constructed for 36 multicrystalline cells. The cells are individually tested and matched for optimum performance before being built into the protective module structure. A Tedlar® base is used and ethylene vinyl acetate encapsulant. High transmission tempered glass protects the cells from the front and a high strength polymer sheet at the rear. A reinforced aluminium frame completes the laminate structure which is fully sealed against moisture and protected from environmental and mechanical damage.

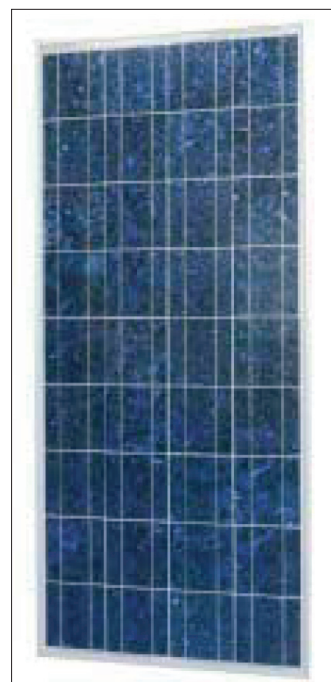
Features:

- High efficiency modules
- 36 off 6 inch (156 x 156 mm) cells
- Reinforced anodised aluminium frame
- Protected by 2 schottky by-pass diodes
- Universal junction box
- Pre-drilled frame for easy mounting
- Product warranty : 5 years*
- Efficiency warranty : 25 years*
- Power tolerance : +/- 3%
- Quality assurance : ESTI (61215), TÜV (Safety Class II), PVGap, ISO 9001.

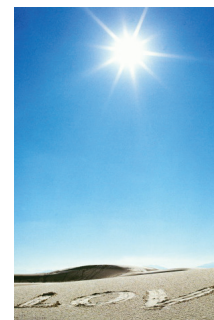


Applications:

- Telecommunications
- Rural electrification
- Grid connected large scale system
- Power plants
- Buildings integration
- Water pumping



SP120PS



*According to general warranty conditions

SP110PS, SP120PS, SP130PS, SP135PS, SP140PS

Specifications

	SP110PS	SP120PS	SP130PS	SP135PS	SP140PS
Cell	Multicrystalline silicon solar cells				
No. of cells and connections	36 (4x9)				
Dimensions of module	1482 x 676 x 35 mm				
Weight	12 kg				

Characteristics

Open circuit voltage (Voc)	21.0	21.6V	21.8	21.9	22.1
Optimum operating voltage (Vmp) - minimum	17.0	17.2V	17.2	17.4	17.6
Short circuit current (Isc)	7.48A	7.7A	7.85A	8.0A	8.1A
Optimum operating current (Imp) - minimum	6.47A	6.98A	7.56A	7.76A	7.95A
Power at STC (Pm) - minimum	110Wp	120Wp	130Wp	135Wp	140Wp

Limits

Operating temperature	-40 to +85°C				
Maximum system voltage	1000V DC				

Temperature and coefficients

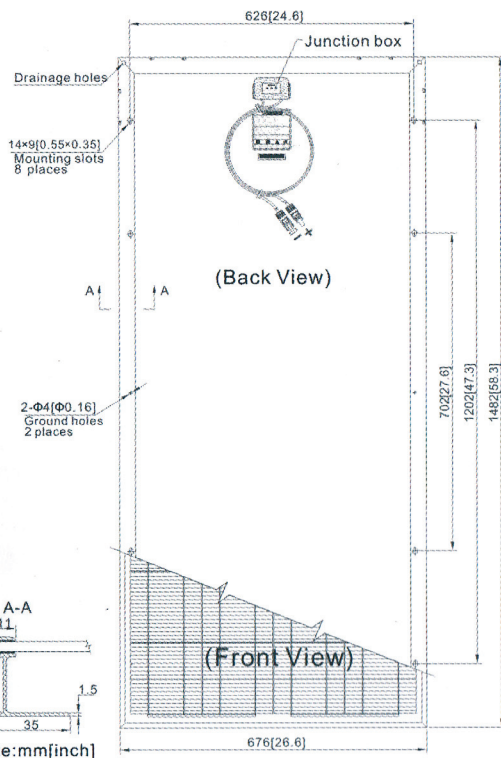
NOCT	48°C ± 2°C				
Current temperature coefficient	0.06 ± 0.01%/K				
Voltage temperature coefficient	-(155 ± 10) mV/K				
Power temperature coefficient	-(0.5 ± 0.05) %/K				

Output

Type of output terminal	Junction box				
Cable	LAPP (4.0mm ²)				
Lengths	750mm (-) and 750mm (+)				
Connection	Plug type IV				

STC: Irradiance 1000W/m². Module temperature 25°C, AM=1.5
NOCT: Nominal Operation Cell Temperature

Modules dimensions



Characteristics

Module IV Graph 120W

