

SOLLATEK SP240PS, SP260PS, SP270PS 24V PHOTOVOLTAIC MODULES

Models :

SP240PS, SP260PS, SP270PS

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 72 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
- 72 off 6 inch (156 x156 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



SP260PS



**According to general warranty conditions*

SP240PS, SP260PS, SP270PS

Specifications			
SP110PS	SP240PS	SP260PS	SP270PS
Cell	Multicrystalline silicon solar cells		
No. of cells and connections	72 (6x12)		
Dimensions of module	1956 × 992 × 50 mm		
Weight	23 kg		
Characteristics			
Open circuit voltage (Voc)	43.2	43.6	43.8
Optimum operating voltage (Vmp) - minimum	34.4	34.8V	35.2
Short circuit current (Isc)	7.7A	7.9A	8.1A
Optimum operating current (Imp) - minimum	6.98A	7.47A	7.67A
Power at STC (Pm) - minimum	240Wp	260Wp	270Wp
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	120mm (-) and 800mm (+)		
Connection	Plug type IV		

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

