SP60-M, SP65-M, SP70-M



SOLLATEK SP60-M, SP65-M, SP70-M 12V PHOTOVOLTAIC MODULE

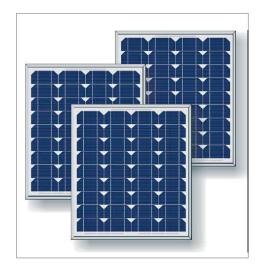
Models:

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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 it 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 SP60-M, SP65-M, SP70-M solar modules are constructed for 36 monocrystalline 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.



SP60-M

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







 ${\it *According to general warranty conditions}$

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Specifications			
	SP60-M	SP65-M	SP70-M
Cell	Monocrystalline silicon solar cells 156 x 78mm		
No. of cells and connections	36 (4x9)		
Dimensions of module	771 x 665 x 30 mm		
Weight	6.2 kg		
Characteristics			
Open circuit voltage (Voc)	21.6V	21.8V	22.1V
Optimum operating voltage (Vmp) - minimum	17.2V	17.2V	17.6V
Short circuit current (lsc)	3.85A	3.93A	4.05A
Optimum operating current (Imp) - minimum	3.49A	3.78A	3.98A
Power at STC (Pm) - minimum	60Wp	65Wp	70Wp
Limits			
Operating temperature	-40 to +85°C		
Maximum system voltage	7150 V DC		
Temperature and coefficients			
NOCT	48°C ± 2°C		
Current temperature coefficient	$0.06 \pm 0.01\%/K$		
Voltage temperature coefficient	$-(155 \pm 10) \text{mV/K}$		
Power temperature coefficient	-(0.5 ± 0.05) %/K		
Output			
Type of output terminal	Junction box		
Cable	LAPP (4.0mm²)		
Longths	750mm (-) and 750mm (+)		
Lengths		/ John () and / John () /	

STC: Irrandiance 1000W/m². Module temperature 25°C, AM=1.5

