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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Sollatek (UK) Ltd.**

**SP155-175-PS**

**SP170-PS**

Also available on the web at  
[EnergyPal.com/sollatek-uk-ltd-solar-panels/sp170-ps](http://EnergyPal.com/sollatek-uk-ltd-solar-panels/sp170-ps)

**SOLLATEK SP155-PS, SP160-PS, SP165-PS, SP170-PS, SP175-PS  
24V PHOTOVOLTAIC MODULES**

**Models :**

SP155-PS, SP160-PS, SP165-PS, SP170-PS, SP175-PS

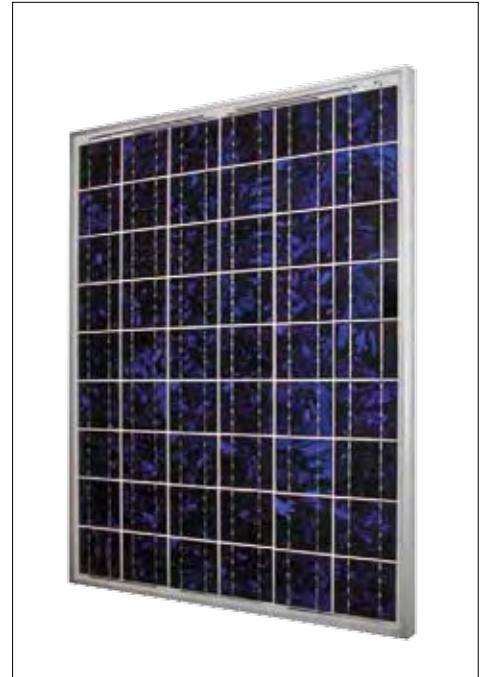
**General:**

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.

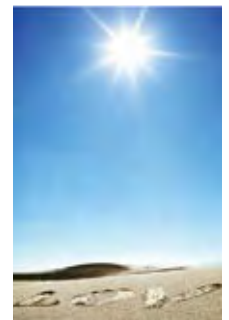
Sollatek's high efficiency solar modules are constructed for 72 multicrystalline cells. The cells are individually tested and matched for optimum performance before being built into the protective module structure. A Tedlar® base is used and ethylene vinyl acetate encapsulant. High transmission tempered 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 5 inch (125.5 x 125.5 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\*
- Quality assurance : ESTI (61215), TÜV (Safety Class II), PVGap, ISO 9001.



SP155-PS



**Applications:**

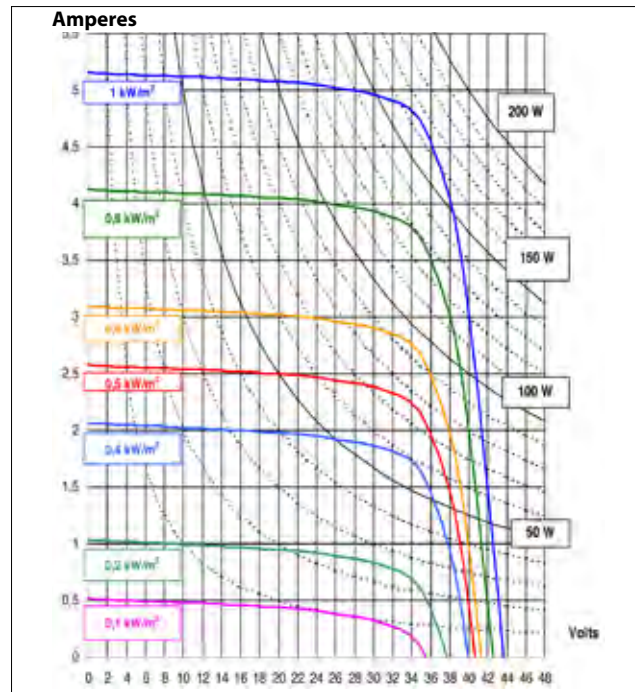
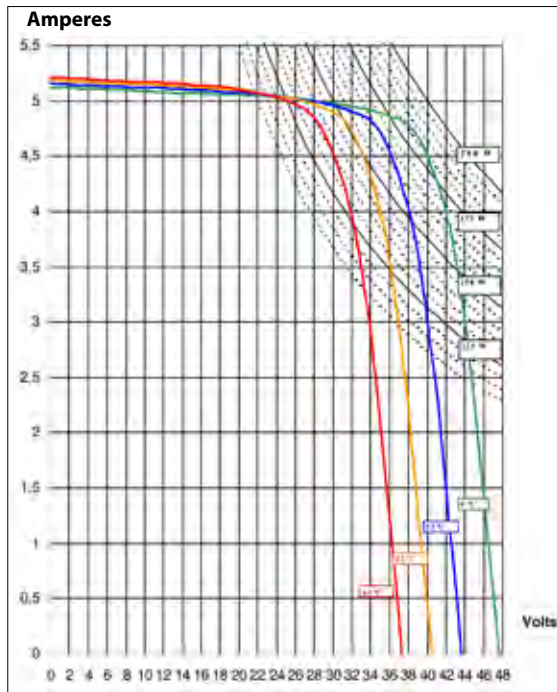
- Telecommunications
- Rural electrification
- Grid connected large scale system
- Power plants
- Commercial buildings
- Cathodic protection
- Water pumping

*\*According to general warranty conditions*

# SP155-PS, SP160-PS, SP165-PS, SP170-PS, SP175-PS

| Model                                 |       | SP155-PS        | SP160-PS        | SP165-PS        | SP170-PS        | SP175-PS        |
|---------------------------------------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Size of cells                         | mm    | 125 x 125       | 125 x 125       | 125 x 125       | 125 x 125       | 125 x 125       |
| Number of cells                       | pcs   | 72              | 72              | 72              | 72              | 72              |
| Typical power                         | Wp    | 155             | 160             | 165             | 170             | 175             |
| Nominal battery voltage               | V     | 24              | 24              | 24              | 24              | 24              |
| Open circuit voltage                  | V     | 42.2            | 42.4            | 42.6            | 42.8            | 43.2            |
| Optimum operating Voltage             | V     | 33.3            | 33.5            | 33.8            | 34.1            | 34.2            |
| Short circuit current                 | A     | 5.08            | 5.12            | 5.23            | 5.32            | 5.4             |
| Optimum operating current             | A     | 4.65            | 4.78            | 4.88            | 4.99            |                 |
| Noct (0.8kW/m <sub>2</sub> 20°C 1m/s) | °C    | 48°C ± 2°C      | 48°C ± 2°C      | 48°C ± 2°C      | 48°C ± 2°C      | 48°C ± 2°C      |
| Connection                            |       | Plug type IV    | Plug type IV    | Plug type IV    | Plug type IV    | Plug type IV    |
| Diodes                                |       | yes             | yes             | yes             | yes             | yes             |
| Frame dimensions (LxWxD)              | mm    | 1580 x 808 x 35 | 1580 x 808 x 35 | 1580 x 808 x 35 | 1580 x 808 x 35 | 1580 x 808 x 35 |
| Depth with junction box               | mm    | 45              | 45              | 45              | 45              | 45              |
| Weight (net)                          | Kg    | 15.5            | 15.5            | 15.5            | 15.5            | 15.5            |
| Operational & storage temperature     | °C    | -40 to +85°C    | -40 to +85°C    | -40 to +85°C    | -40 to +85°C    | -40 to +85°C    |
| Warranty                              | years | 25              | 25              | 25              | 25              | 25              |

These are the most popular sizes. Other sizes available on request.



## Modules dimensions

