

MULTICRYSTALLINE SILICON PHOTOVOLTAIC MODULES

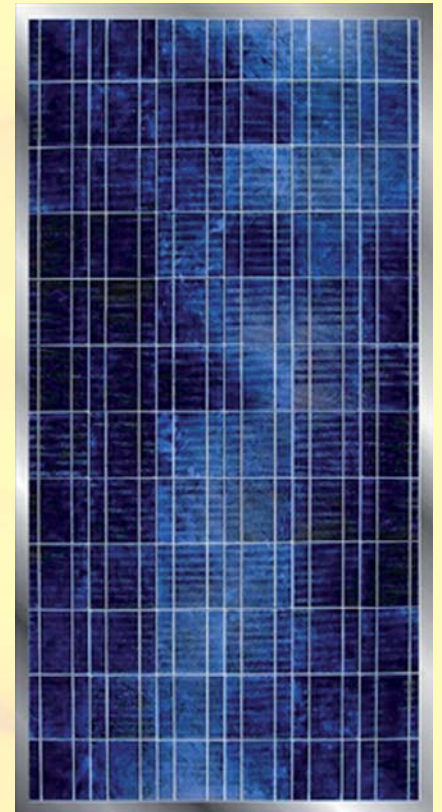
Photovoltaic modules made with components of high quality and according to the pluses technical outposts, fulfilling the certifications: IEC 61215, TÜV Safety Class II, ISO14001-9001 and CE.

It catches the light thanks to his multicrystalline structure cells generating electrical energy of respectful way with environment, in addition it is equipped with an unique aesthetic appearance, which allows its use in multitude of photovoltaic applications.

The modules are available in power ratios from 165 to 180 Wp.

GENERAL CHARACTERISTICS

- Made up of multicrystalline silicon cells of minimum efficiency conversion of 14,4%
- Laminated with anti-aging EVA and high quality TPT
- Available with transparent TPT to improve the performance at high ambient temperature
- Low iron solar glass with high light transmission index
- Aluminium anodized frame prepared to facilitate the assembly
- Junction box and wiring with standard connectors included
- Formed by 72 cells (6x12) of 125x125mm connected in series
- Power guarantee to 90% in 10 years and 80% in 25 years
- High production in peak hours
- Certified manufacture and efficiency under the most demanding methods
- High quality-price relation



TECHNICAL DATA SHEET

Characteristics

| Model | | SPV165P | SPV170P | SPV175P | SPV180P |
|------------------------------------|----|-----------|-----------|-----------|---------|
| Max. power at STC (P_{max}) | Wp | 165 | 170 | 175 | 180 |
| Voltage at Pmax (V_{mp}) | V | 34,8 | 35,2 | 35,2 | 35,57 |
| Open-circuit voltage (V_{oc}) | V | 44,0 | 44,3 | 44,3 | 44,8 |
| Current at Pmax (I_{mp}) | A | 4,74 | 4,83 | 4,97 | 5,06 |
| Short-circuit current (I_{sc}) | A | 5,18 | 5,25 | 5,30 | 5,51 |
| Cell efficiency | % | 14,4-14,8 | 14,8-15,4 | 15,4-15,8 | > 15,8 |
| Module performance | % | 12,92 | 13,32 | 13,71 | 14,1 |

Limits

| | |
|------------------------|-------------|
| Operating temperature | -40 to 85°C |
| Maximum system voltage | 1000 V CC |
| Power tolerance | ± 5% |

NOCT and Temperature Coefficients

| | |
|--------------------------|---------------------|
| NOCT | 47°C |
| Power/temp coefficient | -0,5(± 0.05)%/°C |
| Current/temp coefficient | +0,065(± 0.015)%/°C |
| Voltage/temp coefficient | -0,38%/°C |

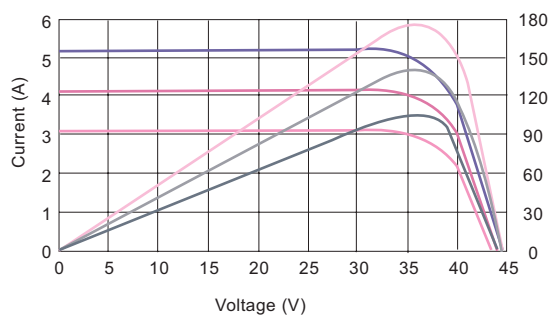
Specifications

| | | |
|-----------------|----|-------------------------------------|
| Dimensions | mm | 1580x808x35 |
| Weight | | ~ 15 kg |
| Hail impact | | 227g steel ball down from 1m height |
| Wind resistance | | > 120km/h |
| Output terminal | | Junction box |
| Cable | | LAPP (4,0mm ²) |
| Length of cable | | 900 mm |
| Connection | | MC4 |

STC: Irradiance 1000W/m², Module temperature 25°C, AM = 1,5.

NOTC: Nominal Operation Cell Temperature.

CURVA I-V



— STC IV data — 800W/m² IV data — 600W/m² IV data — SPC PV data — 800W/m² PV data — 600W/m² PV data

Curva característica del módulo de 175Wp

DIMENSIONES

