

MONOCRYSTALLINE SILICON PHOTOVOLTAIC MODULES

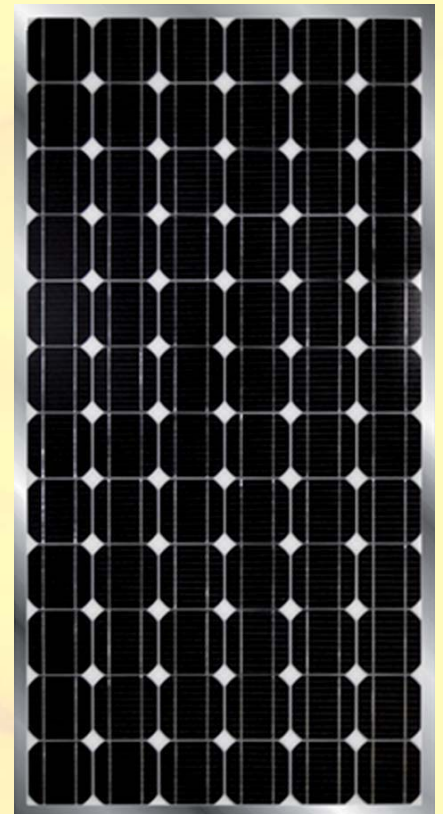
Photovoltaic modules made with components of high quality and according to the pluses technical outposts, fulfilling the certifications: IEC 61215, TÜV Safety Class II, ISO14001-9001 and CE.

Made from monocrystalline silicon cells of high efficiency of conversion, that allow to generate electrical energy of safe and respectful way with environment, they are suitable for its use in grid connected photovoltaic facilities.

The modules are available in power ratios from 150 to 180 Wp. For other power range consult us.

GENERAL CHARACTERISTICS

- Made up of monocrystalline silicon cells of high efficiency of conversion
- 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 resistance to the impact proven by means of standard test
- Certified manufacture and efficiency under the most demanding methods
- Guaranteed great quality-price relation



TECHNICAL DATA SHEET

Characteristics

Model		SPV150M	SPV160M	SPV170M	SPV180M
Max. power at STC (P_{max})	Wp	150	160	170	180
Voltage at Pmax (V_{mp})	V	34,6	34,9	34,9	35,2
Open-circuit voltage (V_{oc})	V	43,0	43,4	43,4	43,6
Current at Pmax (I_{mp})	A	4,34	4,58	4,87	5,11
Short-circuit current (I_{sc})	A	4,98	5,12	5,44	5,50
Cell efficiency	%	13,5	14,4	15,3	16,2
Module performance	%	11,75	12,53	13,32	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 (± 2)
Power/temp coefficient	-0,47%/°C
Current/temp coefficient	+0,10%/°C
Voltage/temp coefficient	-0,38%/°C

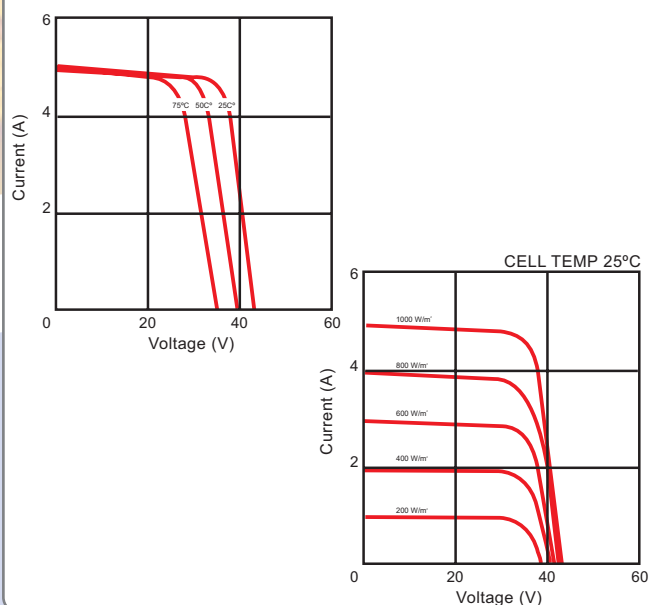
Specifications

Dimensions	mm	1580x808x50
Weight		~ 16 kg
Hail impact		227g steel ball down from 1m height
Wind resistance		> 120km/h
Output terminal		Ningbo (TÜV certified)
Cable		LAPP (4,0mm ²)
Length of cable		900 mm
Connection		MC Equivalent

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

NOTC: Nominal Operation Cell Temperature.

I-V CURVE



DIMENSIONS

