

SP-P36 Series

155 W – 175 W

Polycrystalline Photovoltaic Module

SUNPRISM Energy Technology is a pioneer Egyptian manufacturing company specialized in the crystalline photovoltaic (PV) solar power industry since 2005.

Our core business is the manufacturing of photovoltaic modules in a wide range of power levels for off-grid and on-grid applications up to 380 Wp.

Our acquired experience in crystalline PV module manufacturing comes from the heritage of our world-class engineers specialized in this domain since 1992.



SP-P36 Series Features

- 36 high – performance Polycrystalline silicon solar cells made with an efficiency up to 20%.
- High durability materials
- Manufactured with compliance to German quality standards and warranted for 10 years.
- Power output guaranteed above 80% for 25 years.



SP-P36 (155 W – 175 W)

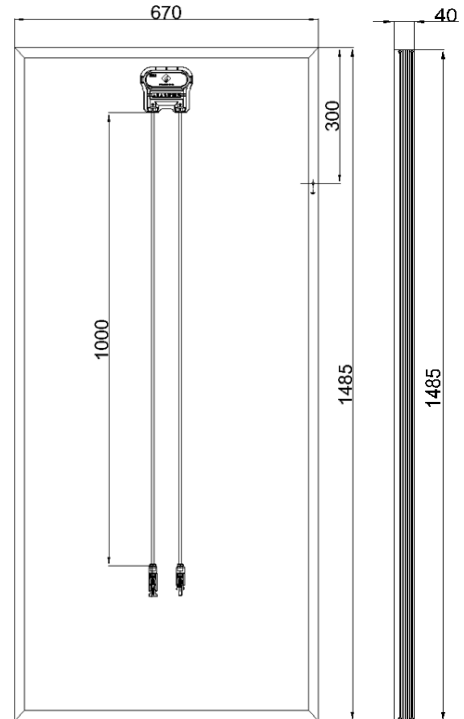
Technical Specifications SP-P36

			155	160	165
Nominal Power	P_{max}	[W _P]	155	160	165
Module Efficiency		%	15.57	16.08	16.58
Rated current	I_{MP}	[A]	8.51	8.70	8.79
Rated Voltage	V_{MP}	[V]	18.23	18.41	18.79
Short circuit current	I_{SC}	[A]	9.09	9.20	9.43
Open circuit voltage	V_{OC}	[V]	21.61	21.89	22.54

Technical Specifications SP-P36

			170	175
Nominal Power	P_{max}	[W _P]	170	175
Module Efficiency		%	17.08	17.58
Rated current	I_{MP}	[A]	8.93	9.07
Rated Voltage	V_{MP}	[V]	19.04	19.30
Short circuit current	I_{SC}	[A]	9.51	9.58
Open circuit voltage	V_{OC}	[V]	22.79	22.96

Electrical data under Standard Test Conditions (STC) :Irradiance 1000W/m², Cell Temperature 25 °C, AM 1.5 +/--3% power measurement tolerance



With assembly tolerance of ± 2 mm (L & W)
± 0.8 mm Thickness

Properties for System Design

Operating Temp.	[°C]	-40 to 85	Nominal Operating Cell Temp.	[°C]	+ 44 ± 2
Protection class		II	Temperature coefficient I_{SC}	α [%/°C]	+ 0.046
Max system voltage	V_{SYS} [V]	1500	Temperature coefficient V_{OC}	β [%/°C]	- 0.313
Max series fuse rating	I_R [A]	15	Temperature coefficient P_{max}	[%/°C]	- 0.420

Nominal Operating Cell Temperature (NOCT) :Irradiance 800W/m², Ambient Temperature 20 °C, Wind Speed 1m/s

Mechanical Properties

Front covering	3.2mm AR tempered solar glass	Protection class	Junction box IP68 rated, 1500 VDC
Back covering	Monolayer high grade PET	Cable	4 mm ² , length 1 m with MC4 compatible
Solar cell	36 Polycrystalline 6" silicon cells	Weight	11 kg
Dimensions	1485 x 670 x 40 mm	HL-test	5400 Pa

Packaging Configuration 50 modules per box, 14 boxes per 40' container / 7 boxes per 20' container

Over the years SUNPRISM Energy Technology has set high benchmarks with its high quality standards. Continuous tests guarantee a consistently high level of quality. Every module undergoes visual, mechanical, and electrical inspections. Each module will be HV-tested and examined by electro luminescence. This is recognizable by means of the original SUNPRISM label, the serial number, and the SUNPRISM guarantee:

- 10 years product warranty
- 10 years linear performance warranty for a power output of 90%
- 25 years linear performance warranty for a power output of 80%
- Detailed warranty conditions and additional information can be found in our warranty terms
- Certified according to IEC 61215 and IEC 61730

* SUNPRISM reserves the right to change specifications without prior notice

