

SP-M36 Series

175 W – 190 W

Monocrystalline 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-M36 Series Features

- 36 high – performance Monocrystalline PERC silicon solar cells made with an efficiency up to 21.8%.
- High durability materials
- Manufactured with compliance to German quality standards and warranted for 10 years.
- Power output guaranteed above 80% for 25 years.



SP-M36 (175 W – 190 W)

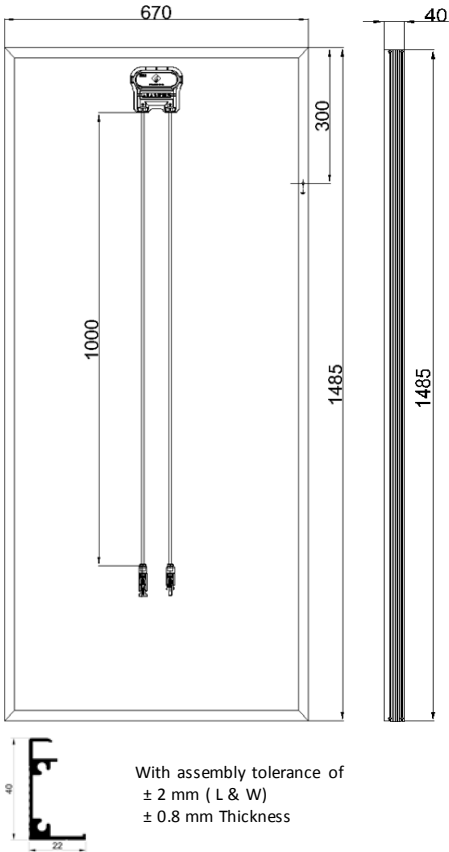
Technical Specifications SP-M36

			175	180
Nominal Power	P_{max}	[W _P]	175	180
Module Efficiency		%	17.58	18.09
Rated current	I_{MP}	[A]	8.95	9.17
Rated Voltage	V_{MP}	[V]	19.56	19.64
Short circuit current	I_{SC}	[A]	9.61	9.69
Open circuit voltage	V_{OC}	[V]	23.18	23.36

Technical Specifications SP-M36

			185	190
Nominal Power	P_{max}	[W _P]	185	190
Module Efficiency		%	18.59	19.09
Rated current	I_{MP}	[A]	9.27	9.37
Rated Voltage	V_{MP}	[V]	19.96	20.28
Short circuit current	I_{SC}	[A]	9.77	9.87
Open circuit voltage	V_{OC}	[V]	23.80	24.00

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



Properties for System Design

Operating Temp.	[°C]	-40 to 85
Protection class		II
Max system voltage	V_{SYS}	[V] 1500
Max series fuse rating	I_R	[A] 15

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

Nominal Operating Cell Temp.	[°C]	+	44 ± 2
Temperature coefficient I_{SC}	α [%/°C]	+	0.05
Temperature coefficient V_{OC}	β [%/°C]	-	0.32
Temperature coefficient P_{max}	[%/°C]	-	0.370

Mechanical Properties

Front covering	3.2mm AR tempered solar glass
Back covering	Monolayer high grade PET
Solar cell	36 Monocrystalline 6" PERC silicon cells
Dimensions	1485 x 670 x 40 mm

Protection class	Junction box IP68 rated, 1500 VDC
Cable	4 mm ² , length 1 m with MC4 compatible
Weight	11 kg
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 modules 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 IEC61215 and IEC 61730

* SUNPRISM reserves the right to change specifications without prior notice

