



SUNPRISM
ENERGY TECHNOLOGY

SP-M36 Series

175 W – 190 W

Monocrystalline Photovoltaic Module

KEY FEATURES



High Power Output up to 190 Wp



100% HV & EL tests on all modules



IP68 Rated Protection



PID Resistant Components



Improved Temperature Coefficient



Superior Low Light Performance



High Load Resistance up to 5400 Pa



PREMIUM SOLAR PANELS SINCE 1997

SUNPRISM Energy Technology is a pioneering Egyptian manufacturer of solar PV modules, with a successful track record of over 20 years of manufacturing premium solar modules. Our acquired experience comes from the heritage of our world-class engineers specialized in this domain since 1992.

Up to **22 %**
MONO PERC CELL EFFICIENCY

1500 V
STANDARD ON ALL MODULES

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY



SP-M36 (175 W – 190 W)

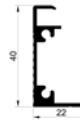
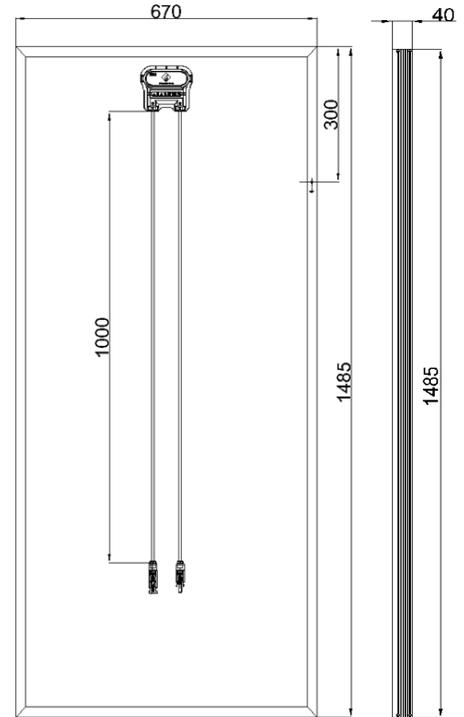
Technical Specifications SP-M36

			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 using class AAA simulator



High grade anodized Aluminum frame with assembly tolerance of:
 ± 1.2% (L & W)
 ± 2 % Thickness
 ± 1 % Weight

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 Temp.	[°C]	+	44 ± 2
Temperature coefficient I_{SC}	α [%/°C]	+	0.057
Temperature coefficient V_{OC}	β [%/°C]	-	0.31
Temperature coefficient P_{max}	[%/°C]	-	0.37

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
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 25 modules per box, 22 boxes per 40' HC container /10 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 IEC 61215 and IEC 61730-1&2

* SUNPRISM reserves the right to change specifications without prior notice

