

# SP-M72 Series

## 355 W – 380 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-M72 Series Features

- 72 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-M72 (355 W – 380 W)

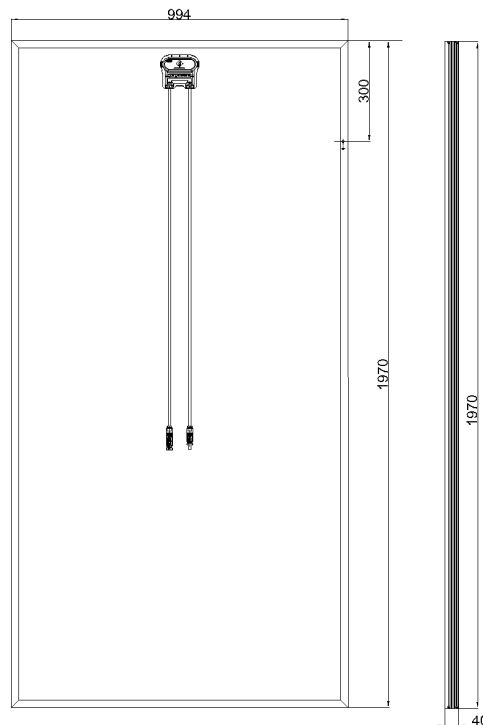
## Technical Specifications SP-M72 355 360 365

Nominal Power	$P_{max}$	[W <sub>p</sub> ]	355	360	365
Module Efficiency		%	18.13	18.38	18.64
Rated current	$I_{MP}$	[A]	9.08	9.15	9.22
Rated Voltage	$V_{MP}$	[V]	39.10	39.36	39.59
Short circuit current	$I_{sc}$	[A]	9.61	9.68	9.71
Open circuit voltage	$V_{oc}$	[V]	46.36	46.72	47.09

## Technical Specifications SP-M72 370 375 380

Nominal Power	$P_{max}$	[W <sub>p</sub> ]	370	375	380
Module Efficiency		%	18.89	19.15	19.40
Rated current	$I_{MP}$	[A]	9.25	9.30	9.37
Rated Voltage	$V_{MP}$	[V]	40.01	40.34	40.57
Short circuit current	$I_{sc}$	[A]	9.75	9.80	9.87
Open circuit voltage	$V_{oc}$	[V]	47.52	47.80	48.02

Electrical data under Standard Test Conditions (STC) :Irradiance 1000W/m<sup>2</sup>, 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
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/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1m/s

Nominal Operating Cell Temp.	[°C]	+	44 ± 2
Temperature coefficient $I_{sc}$	$\alpha$ [%/°C]	+	0.05
Temperature coefficient $V_{oc}$	$\beta$ [%/°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	72 Monocrystalline 6" PERC silicon cells
Dimensions	1970 x 994 x 40 mm

Protection class	Junction box IP68 rated, 1500 VDC
Cable	4 mm <sup>2</sup> , length 1 m with MC4 compatible
Weight	21.5 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 IEC61215 and IEC 61730

\* SUNPRISM reserves the right to change specifications without prior notice

