

SP-P72 Series

315 W – 350 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-P72 Series Features

- 72 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-P72 (315 W – 350 W)

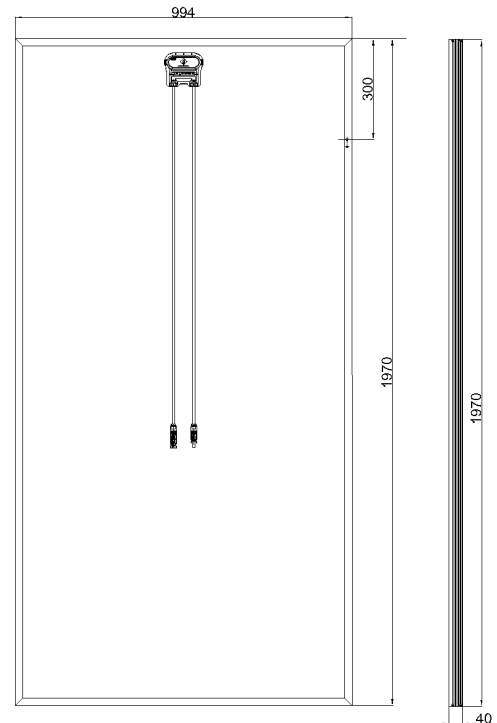
Technical Specifications SP-P72 315 320 325 330

Nominal Power	P_{max}	$[W_p]$	315	320	325	330
Module Efficiency	%		16.08	16.34	16.60	16.85
Rated current	I_{MP}	$[A]$	8.61	8.70	8.76	8.81
Rated Voltage	V_{MP}	$[V]$	36.60	36.80	37.11	37.46
Short circuit current	I_{SC}	$[A]$	9.13	9.20	9.24	9.38
Open circuit voltage	V_{OC}	$[V]$	45.36	45.72	45.93	46.80

Technical Specifications SP-P72 335 340 345 350

Nominal Power	P_{max}	$[W_p]$	335	340	345	350
Module Efficiency	%		17.1	17.36	17.62	17.87
Rated current	I_{MP}	$[A]$	8.87	8.93	9.00	9.07
Rated Voltage	V_{MP}	$[V]$	37.77	38.08	38.34	38.61
Short circuit current	I_{SC}	$[A]$	9.46	9.51	9.55	9.58
Open circuit voltage	V_{OC}	$[V]$	47.30	47.59	47.80	47.95

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.	$[^{\circ}C]$	-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.	$[^{\circ}C]$	+	44 ± 2
Temperature coefficient I_{SC}	α $[%/^{\circ}C]$	+	0.046
Temperature coefficient V_{OC}	β $[%/^{\circ}C]$	-	0.313
Temperature coefficient P_{max}	$[%/^{\circ}C]$	-	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
Back covering	Monolayer high grade PET
Solar cell	72 Polycrystalline 6" silicon cells
Dimensions	1970 x 994 x 40 mm

Protection class	Junction box IP68 rated, 1500 VDC
Cable	4 mm ² , 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 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

