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Solar Panel Guide Specification Data Sheet

Sunprism Energy Technology

SP 255-290 - P60

SP 275-P60

Also available on the web at
EnergyPal.com/sunprism-energy-technology-solar-panels/sp-275-p60

SP-P60 Series

255 W – 290 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-P60 Series Features

- 60 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-P60 (255 W – 290 W)

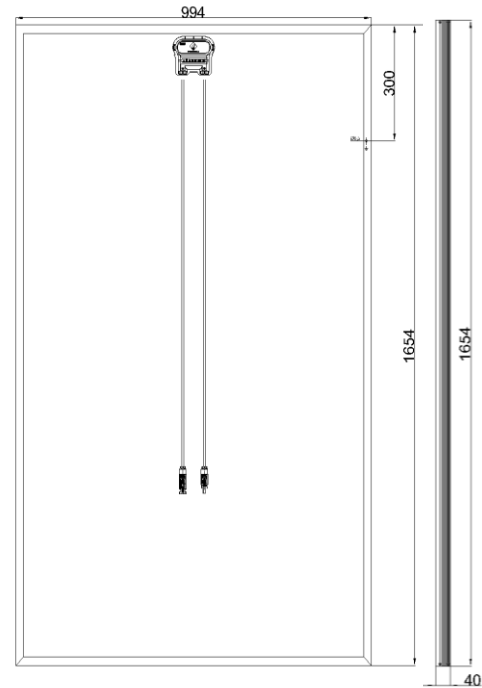
Technical Specifications SP-P60 255 260 265 270

Nominal Power	P_{max}	$[W_p]$	255	260	265	270
Module Efficiency	%		15.51	15.81	16.12	16.42
Rated current	I_{MP}	$[A]$	8.44	8.54	8.66	8.75
Rated Voltage	V_{MP}	$[V]$	30.22	30.45	30.63	30.86
Short circuit current	I_{SC}	$[A]$	9.04	9.09	9.18	9.23
Open circuit voltage	V_{OC}	$[V]$	37.50	37.69	37.98	38.22

Technical Specifications SP-P60 275 280 285 290

Nominal Power	P_{max}	$[W_p]$	275	280	285	290
Module Efficiency	%		16.73	17.03	17.33	17.64
Rated current	I_{MP}	$[A]$	8.83	8.89	8.96	9.03
Rated Voltage	V_{MP}	$[V]$	31.16	31.50	31.82	32.12
Short circuit current	I_{SC}	$[A]$	9.39	9.47	9.53	9.57
Open circuit voltage	V_{OC}	$[V]$	39.00	39.48	39.78	39.96

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.	$[^{\circ}C]$	-40 to 85	Nominal Operating Cell Temp.	$[^{\circ}C]$	+ 44 ± 2
Protection class		II	Temperature coefficient I_{SC}	α $[%/^{\circ}C]$	+ 0.046
Max system voltage	V_{SYS} $[V]$	1500	Temperature coefficient V_{OC}	β $[%/^{\circ}C]$	- 0.313
Max series fuse rating	I_R $[A]$	15	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	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	60 Polycrystalline 6" silicon cells	Weight	18 kg
Dimensions	1654 x 994 x 40 mm	HL-test	5400 Pa

Packaging Configuration 25 modules per box, 26 boxes per 40' HC container /12 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

