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Solar Panel Guide Specification Data Sheet

Sunprism Energy Technology SP 295-315 - M60 SP 315-M60

Also available on the web at
EnergyPal.com/sunprism-energy-technology-solar-panels/sp-315-m60

SP-M60 Series

295 W – 315 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-M60 Series Features

- 60 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-M60 (295 W – 315 W)

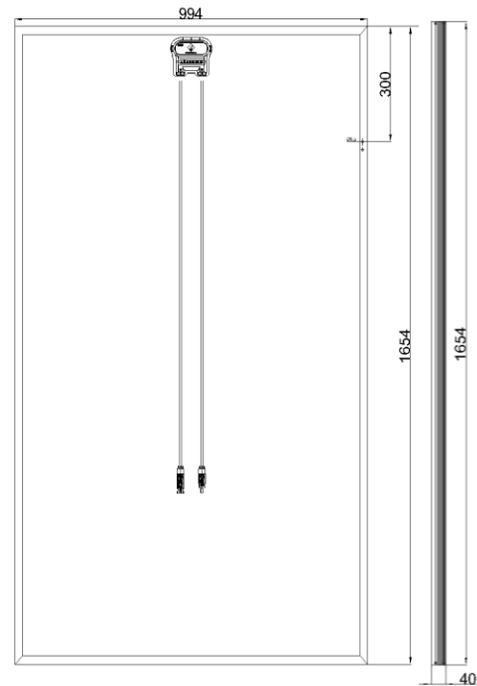
Technical Specifications SP-M60

			295	300	305
Nominal Power	P_{max}	[W _p]	295	300	305
Module Efficiency		%	17.94	18.25	18.55
Rated current	I_{MP}	[A]	9.06	9.14	9.21
Rated Voltage	V_{MP}	[V]	32.57	32.83	33.12
Short circuit current	I_{SC}	[A]	9.61	9.68	9.73
Open circuit voltage	V_{OC}	[V]	38.64	38.84	39.30

Technical Specifications SP-M60

			310	315
Nominal Power	P_{max}	[W _p]	310	315
Module Efficiency		%	18.85	19.16
Rated current	I_{MP}	[A]	9.25	9.33
Rated Voltage	V_{MP}	[V]	33.52	33.77
Short circuit current	I_{SC}	[A]	9.78	9.85
Open circuit voltage	V_{OC}	[V]	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.	[°C]	-40 to 85	Nominal Operating Cell Temp.	[°C]	+ 44 ± 2
Protection class		II	Temperature coefficient I_{SC}	α [%/°C]	+ 0.05
Max system voltage	V_{SYS} [V]	1500	Temperature coefficient V_{OC}	β [%/°C]	- 0.32
Max series fuse rating	I_R [A]	15	Temperature coefficient P_{max}	[%/°C]	- 0.370

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 Monocrystalline 6" PERC 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 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

* SUNPRISM reserves the right to change specifications without prior notice

