



SUNPRISM
ENERGY TECHNOLOGY

SP-M60 Series

295 W – 315 W

Monocrystalline Photovoltaic Module

KEY FEATURES



High Power Output up to 315 Wp



PID Resistant Components



Improved Temperature Coefficient



Superior Low Light Performance



High Load Resistance up to 5400 Pa



100% EL & HV tests on all modules



IP68 Rated Protection



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 **21 %**
CELL EFFICIENCY

1500 V
STANDARD ON ALL MODULES

10 YEAR
PRODUCT WARRANTY

25 YEAR
LINEAR POWER WARRANTY

SP-M60 (295 W – 315 W)

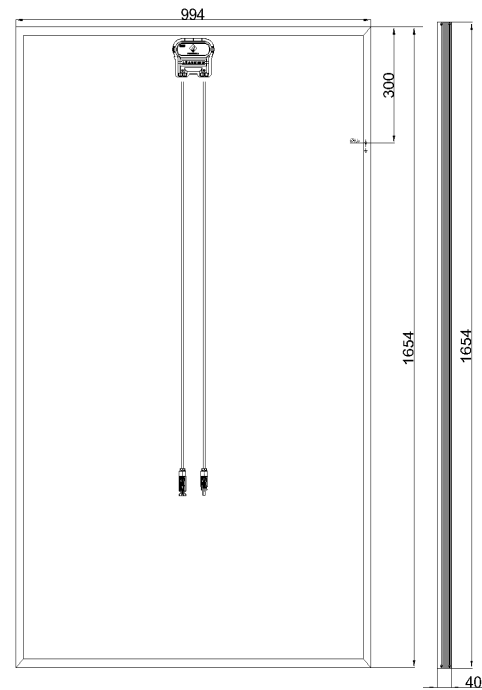
Technical Specifications SP-M60

			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]	+ 0.057
Max system voltage	V_{SYS} [V]	1500	Temperature coefficient V_{OC}	β [%/°C]	- 0.31
Max series fuse rating	I_R [A]	15	Temperature coefficient P_{max}	[%/°C]	- 0.42

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, 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

* SUNPRISM reserves the right to change specifications without prior notice

