

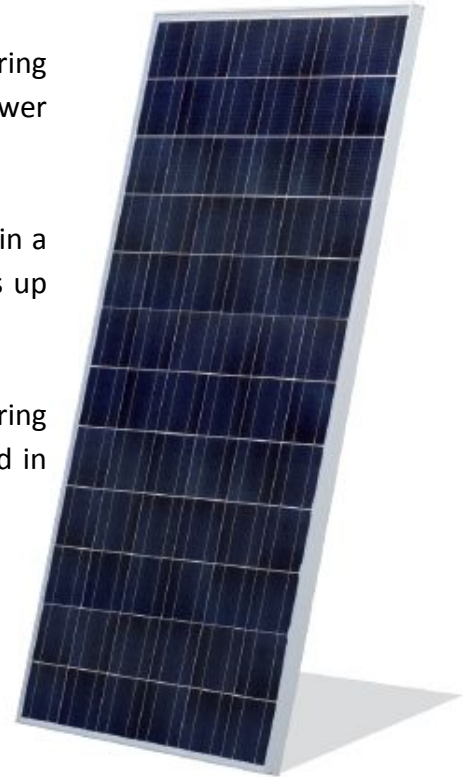
SUNPRISM

PX Series 310 – 325 Wp

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 330 Wp.

Our acquired experience in crystalline PV module manufacturing comes from the heritage of our world-class engineers specialized in this domain since 1992.



PX Series Features

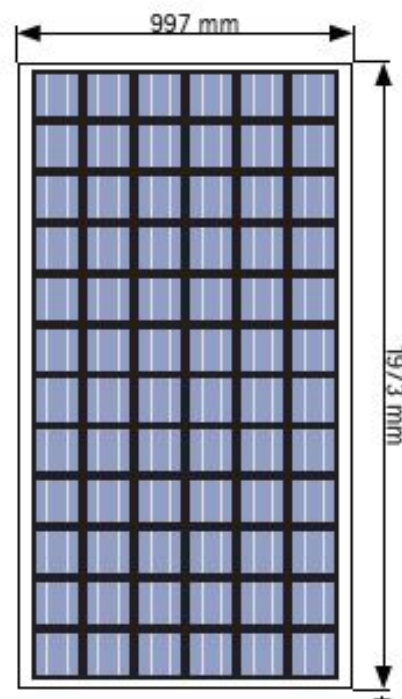
- 72 high – performance Polycrystalline silicon solar cells made with an efficiency up to 19%.
- High durability materials
- Manufactured with compliance to German quality standards and warranted for 10 years.
- Power output guaranteed above 80% for 25 years.



Module series PX 310-325

Technical specifications PX		310	315	320	325
Nominal Power	P_{max} [W _p]	310	315	320	325
Rated current	I_{MP} [A]	8.43	8.53	8.63	8.72
Rated Voltage	V_{MP} [V]	36.78	36.94	37.12	37.28
Short circuit current	I_{SC} [A]	8.96	9.06	9.15	9.24
Open circuit voltage	V_{OC} [V]	45.68	45.91	46.15	46.38

Peak power under test conditions (STC:1000W/m²,25°C, spectrum AM 1.5) +/-2% power tolerance



Technical specifications PX		310	315	320	325
Nominal Power	P_{max} [W _p]	220	224	227	231
Rated current	I_{MP} [A]	6.65	6.73	6.79	6.89
Rated Voltage	V_{MP} [V]	33.1	33.3	33.4	33.5
Short circuit current	I_{SC} [A]	7.23	7.32	7.39	7.46
Open circuit voltage	V_{OC} [V]	40.3	40.5	40.7	40.9

Rated value with nominal operating cell temperature (NOCT:800 W/m²,48± 2°C,spectrum AM 1.5)

Properties for system design

Protection class	II				
System voltage	V_{SYS} [V]	1500	Temperature coefficient I_{SC}	α [mA/K]	+ 4.4
Reverse current	I_R [A]	15	Temperature coefficient V_{OC}	β [mV/K]	- 2.0

Mechanical properties

Front covering	4 mm AR tempered solar glass	Protection class	Junction box IP 68
Back covering	Monolayer high grade PET	Cable	1 m with MC4 connector or compatible
Solar cell	72 Polycrystalline 6" silicon cells	Weight	26.2 kg
Dimensions	1973 x 997 x 40 mm	HL-test	5400 Pa

Packaging Configuration 25 modules per box, 22 boxes per 40' HQ container / 8 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 recognisable 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

