MONO-CRYSTALLINE SOLAR MODULE

48 CELLS

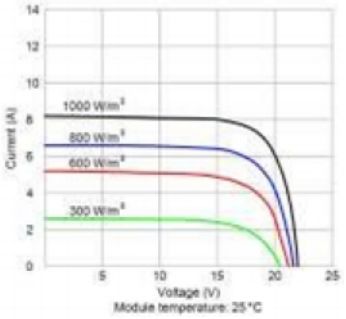
- ***SP100M***
- ***SP110M***
- ***SP120M***

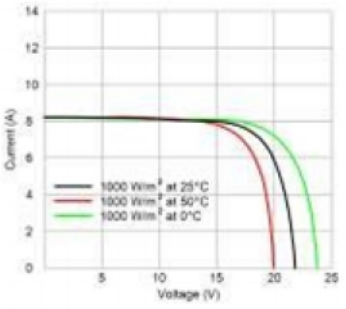
FEATURES

- High reliability with 0/+5% power output tolerance
- Withstands high wind-pressure and snow load, and extreme temperature variations
- High transparency tempered glass, 3.2 mm
- Maybe customized to meet customer specifications
- Rigorous quality control meeting the highest international standards

WARRANTIES

- 10 years limited product warranty
- 5 years at 95% of the minimal rated power output
- 10 years at 90% of the minimal rated power output
- 18 years at 85% of the minimal rated power output
- 25 years at 80% of the minimal rated power output





SYNTHESIS POWER
RENEWABLE ENERGY SPECIALISTS

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48 CELLS

Electrical Data

Model		SP100M	SP110M	SP120M
Maximum Power at STC (Pm)	Wp	100	110	120
Maximum Power Voltage (Vmp)	V	22.6	22.6	22.6
Maximum Power Current (Imp)	A	4.42	4.86	5.31
Open Circuit Voltage (Voc)	V	26.6	26.6	26.6
Short Circuit Current (Isc)	A	5.82	5.03	6.20
Cell Efficiency	%	14.05	15.46	16.86
Panel Efficiency	%	11.46	12.61	13.75
Maximum System Voltage	V	715		
Operating Temperature	°C	From -40 to +85		
Power Tolerance	%	0/+5%		

Components, Mechanical Data, Certifications

Cell Type		Mono-crystalline Silicon Solar Cells
Dimensions of Cell	mm	125 x 125
No. of Cells and Connections		48 (6 x 8)
Certifications		TÜV Application Class A 1000 VDC
Dimension of Module	mm	1080 x 808 x 40
Weight	kg	11.0

Temperature Coefficient

Model		SP100M	SP110M	SP120M
Short Circuit Current Temperature Coefficient	%/°C	0.017	0.017	0.017
Open Circuit Voltage Temperature Coefficient	%/°C	-0.34	-0.34	-0.34
Maximum Power Temperature Coefficient	%/°C	-0.48	-0.48	-0.48
NOCT	°C	47 ±2		

The electrical specifications are measured under standard conditions (STC):

- Irradiance 1,000 W/m^2
- Module Temperature 25°C
- AM 1.5