For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

Email: contact@energypal.com



Solar Panel Guide Specification Data Sheet

SunMan (Shanghai) Ltd. SMS100-105P-2X12 SMS105P-2X12

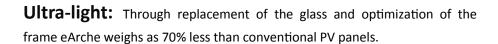




105 Watt

24 Cell Polycrystalline Module

Features



Flexible: eArche combines a unique, patented material with other industryleading technologies to produce superior flexible crystalline-silicon panel which can be installed on curved surface.

Aesthetics: Aesthetically pleasing design with patented materials and sophisticated manufacturing process results in a high-efficiency, attractive panel, with no light pollution, PID-free operation and high levels of safety.

Easy Installation: eArche can reduce installation cost by up to 50% through the use of re-engineered components, ease of handling and faster installation.

Transportation: eArche's innovative frame and low weight will very significantly reduce the cost of transportation.

Deployment: Ultra-light weight, flexibility and customizable size make eArche the best choice to change the way how solar is deployed in the market and bring added value to special applications.

Durability: eArche panels are certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal), while special materials and stringent quality control ensure panel longevity.



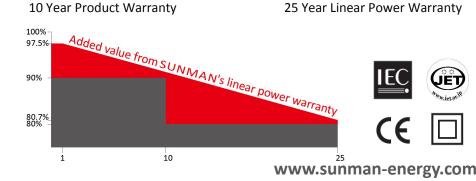
100-105 W

POWER OUTPUT RANGE

0-5 W

POWER TOLERANCE

PERFORMANCE LINEAR WARRANTY











SMS100P-2X12



Electrical Characteristics				
STC	SMS105P-2X12	SMS100P-2X12		
Maximum Power (P _{max})	105	100		
Maximum Power Voltage (V _{mp})	12.7	12.4		
Maximum Power Current (I _{mp})	8.27	8.07		
Open-circuit Voltage (Voc)	15.4	15.2		
Short-circuit Current (I _{sc})	8.73	8.52		
Module Efficiency (%)	15.5	14.8		
Operating Temperature (°C)	-40 °C to 85 °C			
Maximum System Voltage	600 V DC (IEC)			
Maximum Series Fuse Rating	20 A			
Application Class	Class A			
Power Tolerance	0/+5 W			

STC: Irradiance 1000W/m², Cell temperature 25 $^{\circ}\mathrm{C}$, AM=1.5.

NOCT	SMS105P-2X12	SMS100P-2X12
Maximum Power (P _{max})	78	74
Maximum Power Voltage (V _{mp})	11.7	11.5
Maximum Power Current (I _{mp})	6.67	6.44
Open-circuit Voltage (Voc)	14.3	14.1
Short-circuit Current (I _{sc})	7.00	6.83

NOCT: Irradiance $800W/m^2$, Ambient temperature $20^{\circ}C$, Wind speed 1 m/s.

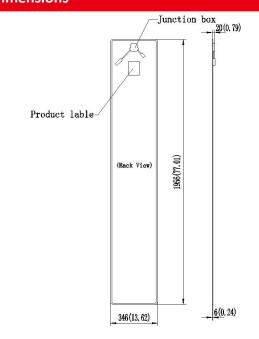
Mechanical Characteristics

Solar Cell	Polycrystalline silicon (6 inches)
No. of Cells	24 (2×12)
Module Dimensions	1956×346×6 mm (77.0×13.6×0.2 inch)
Weight	2.9 kgs (6.4 lbs)
Backsheet	White
Frame	Black EPDM
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)150 / (-)450 mm
Connector	MC4 compatible

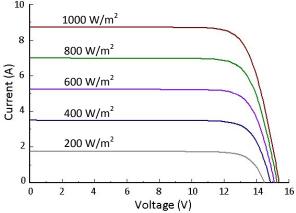
Packaging Configuration

	20' GP	40' HC		
Module per pallet	50	50		
Pieces per container	1000	2500		

Dimensions



I-V Curve (105)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2 ℃
Temperature Coefficient of Pmax	-0.41 %/℃
Temperature Coefficient of Voc	-0.30 %/℃
Temperature Coefficient of Isc	0.048 %/℃

Dealer Information

CAUTION: Read installation manual before using the product.