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Solar Panel Guide Specification Data Sheet

SunMan (Shanghai) Ltd. SMF315-320P-6X12 SMF315P-6X12

Also available on the web at EnergyPal.com/sunman-shanghai-ltd-solar-panels/smf315p-6x12





320 Watt 72 Cell Polycrystalline Module



Features

Ultra-light: Through replacement of the glass and optimization of the frame eArche weighs as 70% less than conventional PV panels.

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.

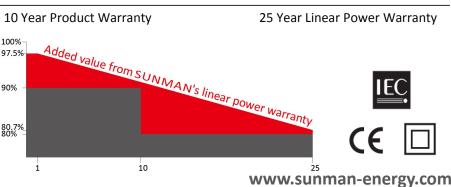
Easy Installation: eArche can reduce installation cost by up to 50% through the use of re-engineered components, ease of handling and faster installation.

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.

LINEAR PERFORMANCE WARRANTY



315-320 W

POWER OUTPUT RANGE

0-5 W

POWER TOLERANCE

SMF320P-6X12

<u>SVM AN</u>

SMF315P-6X12

Electrical	Characteristics

Electrical characteristics			
STC	SMF320P-6X12	SMF315P-6X12	
Maximum Power (P _{max})	320	315	
Maximum Power Voltage (V _{mp})	38.2	37.9	
Maximum Power Current (I _{mp})	8.38	8.32	
Open-circuit Voltage (V _{oc})	45.9	45.7	
Short-circuit Current (I _{sc})	8.88	8.82	
Module Efficiency (%)	16.6	16.3	
Operating Temperature (°C)	-40 ℃ to 85 ℃		
Maximum System Voltage	600 V I	600 V DC (IEC)	
Maximum Series Fuse Rating	20	20 A	
Application Class	Class A		
Power Tolerance	0/+5 W		
STC: Irradiance 1000W/m ² , Cell temperature 25	°C, AM=1.5.		

NOCT	SMF320P-6X12	SMF315P-6X12	
Maximum Power (P _{max})	236	232	
Maximum Power Voltage (V _{mp})	34.9	34.7	
Maximum Power Current (I _{mp})	6.77	6.69	
Open-circuit Voltage (V _{oc})	42.5	42.3	
Short-circuit Current (I _{sc})	7.17	7.09	

NOCT: Irradiance 800W/m², Ambient temperature 20 $^\circ\!\mathrm{C}$, Wind speed 1 m/s.

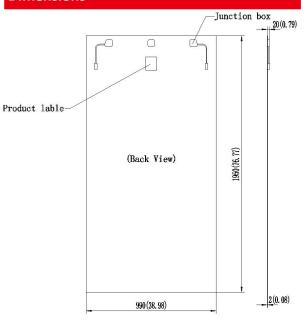
Mechanical Characteristics

Solar Cell	Polycrystalline silicon (6 inches)
No. of Cells	72 (6×12)
Module Dimensions	1950×990×2 mm (76.8×39.0×0.1 inch)
Weight	6.8 kgs (15.0 lbs)
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)150 / (-)450 mm
Connector	MC4 compatible

Packaging Configuration

000		
	20' GP	40' HC
Module per pallet	66	66
Pieces per container	330	1584

Dimensions



I-V Curve (320) 10 1000 W/m² 8 800 W/m² Current (A) 600 W/m² 400 W/m² 200 W/m² 2 0 0 10 20 30 40 50 Voltage (V)

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.

CAUTION: Read installation manual before using the product. © 2017 Sunman (Hong Kong) Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice. Www.sunman-energy.com