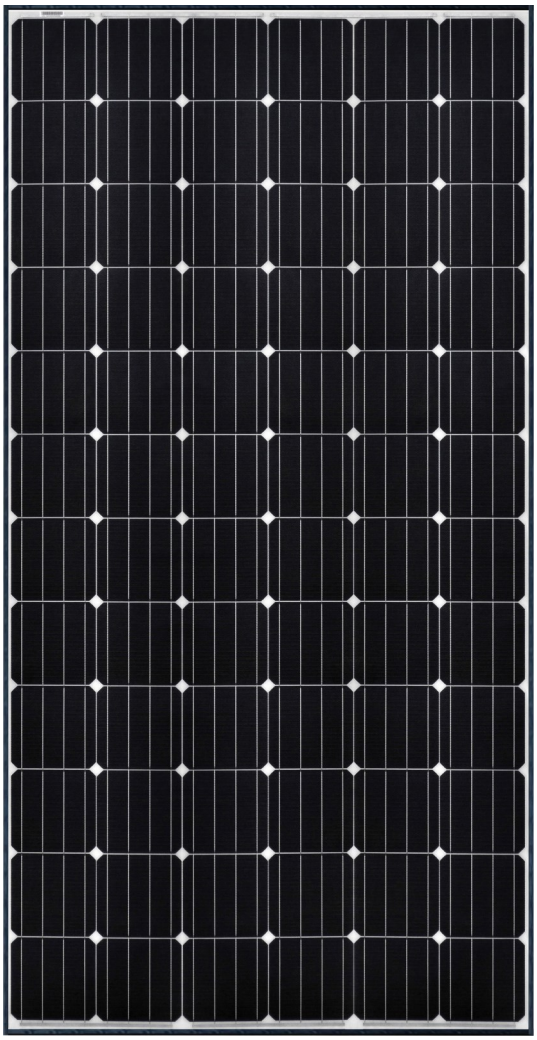
eArche

325 Watt

72 Cell Monocrystalline 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 industry-leading 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.

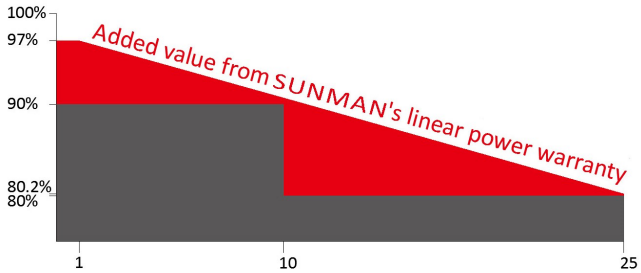
Deployment: Ultra-light weight, flexibility and customizable size make eArche the best choice to change the way how solar is deployed in the market and bring added value to special applications.

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

10 Year Product Warranty

25 Year Linear Power Warranty



320-325 W

POWER OUTPUT RANGE

0-5 W

POWER TOLERANCE

www.sunman-energy.com

SMS325M-6X12

SMS320M-6X12

Electrical Characteristics

STC	SMS325M-6X12	SMS320M-6X12
Maximum Power (P_{max})	325	320
Maximum Power Voltage (V_{mp})	38.5	38.2
Maximum Power Current (I_{mp})	8.45	8.38
Open-circuit Voltage (V_{oc})	46.1	45.9
Short-circuit Current (I_{sc})	8.96	8.88
Module Efficiency (%)	16.7	16.5
Operating Temperature (℃)	-40 ℃ to 85 ℃	
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/m^2, Cell temperature 25℃, AM=1.5.

STC	SMS325M-6X12	SMS320M-6X12
Maximum Power (P_{max})	240	236
Maximum Power Voltage (V_{mp})	35.1	34.9
Maximum Power Current (I_{mp})	6.84	6.77
Open-circuit Voltage (V_{oc})	42.7	42.5
Short-circuit Current (I_{sc})	7.24	7.17

NOCT: Irradiance 800W/m^2, Ambient temperature 20℃, Wind speed 1 m/s.

Mechanical Characteristics

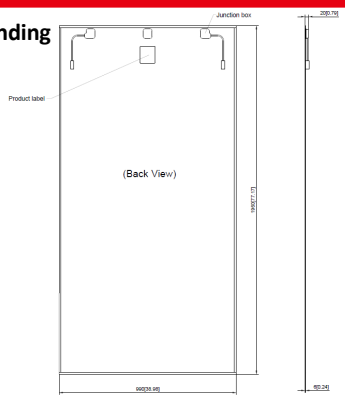
Solar Cell	Monocrystalline silicon (6 inches)	
No. of Cells	72 (6×12)	
Module Dimensions	Quick Bonding	1960×990×6 mm (77.2×39.0×0.2 inch)
	Pre-installed ribs	1960×990×24 mm (77.2×39.0×0.9 inch)
Weight	Quick Bonding	7.4 kgs (16.3 lbs)
	Pre-installed ribs	9.6 kgs (21.2 lbs)
Backsheet	White	
J-box	IP 68 rated	
Output Cables	Photovoltaic technology cable 4.0 mm^2, (+)150 / (-)450 mm	
Connector	MC4 compatible	

Packaging Configuration

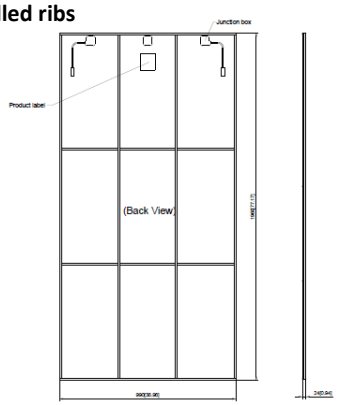
		20' GP	40' HC
Quick Bonding	Module per pallet	66	66
	Pieces per container	330	1584
Pre-installed ribs	Module per pallet	60	60
	Pieces per container	300	1440

Dimensions

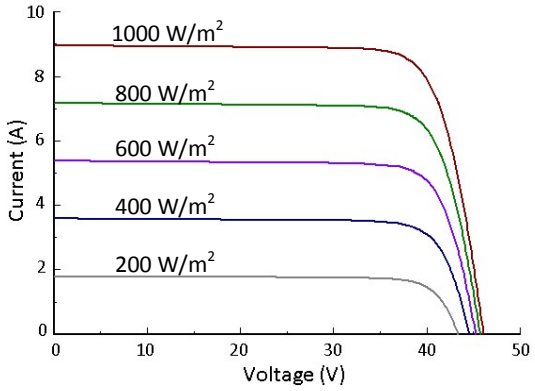
Quick Bonding



Pre-installed ribs



I-V Curve (325)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2 ℃
Temperature Coefficient of Pmax	-0.42 %/℃
Temperature Coefficient of Voc	-0.31 %/℃
Temperature Coefficient of Isc	0.050 %/℃

Dealer Information

SMS_IEC_EN_2016B

CAUTION: Read installation manual before using the product.