eArche

SUNMAN

210 Watt

48 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 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.

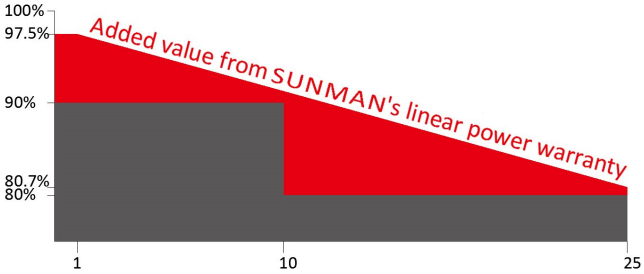
Deployment: Ultra-light weight, flexibility and customizable size make eArche the best choice to change the way how solar is deployed in the market and bring added value to special applications.

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



205-210 W

POWER OUTPUT RANGE

0-5 W

POWER TOLERANCE

IEC

CE

www.sunman-energy.com

SMF210P-4X12

SMF205P-4X12

Electrical Characteristics

STC	SMF210P-4X12	SMF205P-4X12
Maximum Power (P_{max})	210	205
Maximum Power Voltage (V_{mp})	25.4	25.1
Maximum Power Current (I_{mp})	8.27	8.17
Open-circuit Voltage (V_{oc})	30.8	30.6
Short-circuit Current (I_{sc})	8.73	8.62
Module Efficiency (%)	16.3	15.9
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.

NOCT	SMF210P-4X12	SMF205P-4X12
Maximum Power (P_{max})	156	152
Maximum Power Voltage (V_{mp})	23.4	23.2
Maximum Power Current (I_{mp})	6.67	6.56
Open-circuit Voltage (V_{oc})	28.6	28.4
Short-circuit Current (I_{sc})	7.00	6.92

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

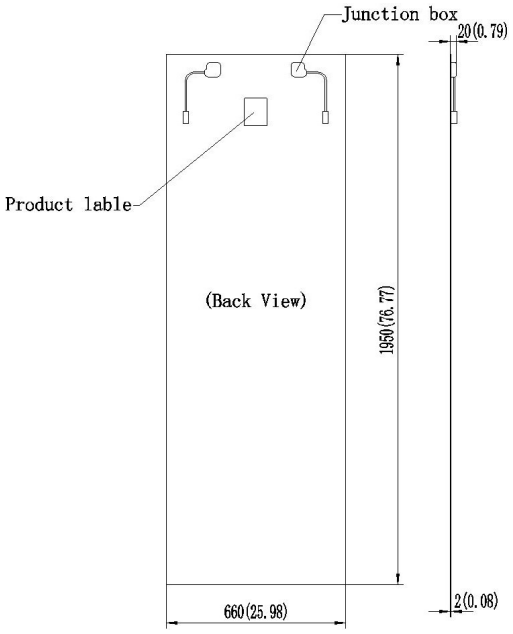
Mechanical Characteristics

Solar Cell	Polycrystalline silicon (6 inches)
No. of Cells	48 (4×12)
Module Dimensions	1950X660X2 mm (76.8X26.0X0.1 inch)
Weight	4.6 kgs (10.1 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

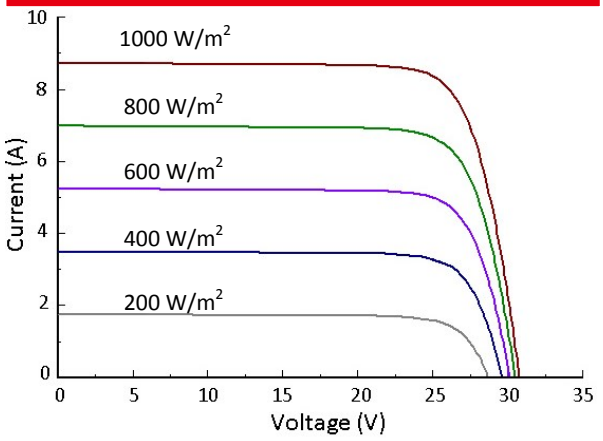
Packaging Configuration

	20' GP	40' HC
Module per pallet	66	66
Pieces per container	660	2376

Dimensions



I-V Curve (210)



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

SMF_IEC_EN_2017B

CAUTION: Read installation manual before using the product.