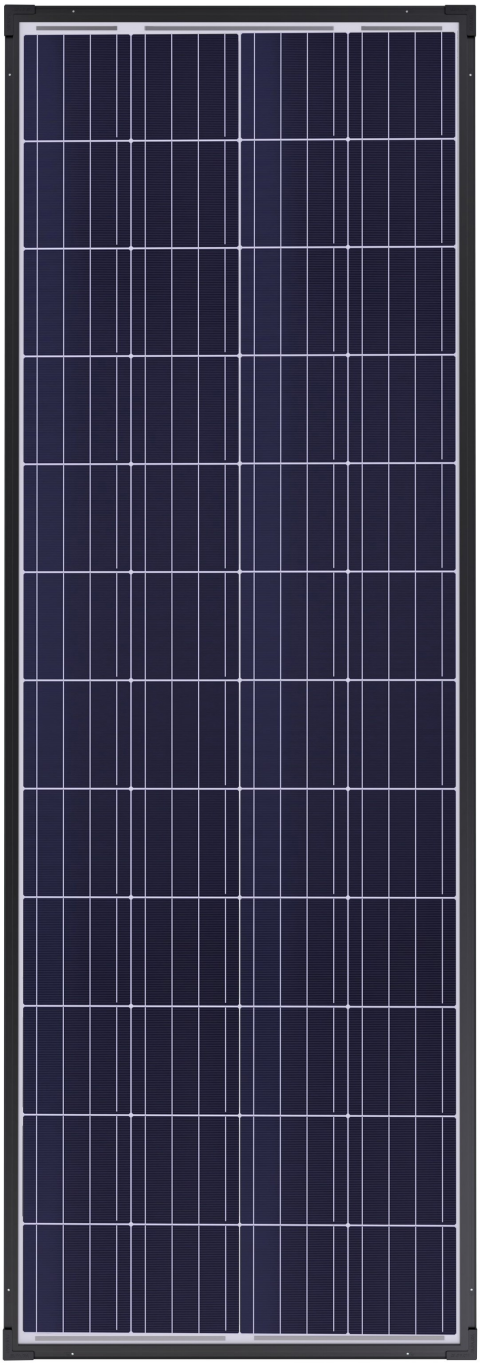
eArche

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.

205-210 W

POWER OUTPUT RANGE

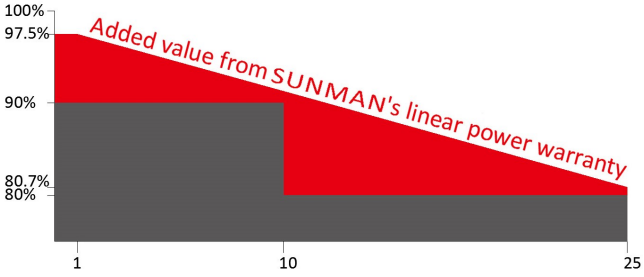
0-5 W

POWER TOLERANCE

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty



www.sunman-energy.com

SMD210P-4X12

SMD205P-4X12

Electrical Characteristics

STC	SMD210P-4X12	SMD205P-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 (%)	15.4	15.0
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	SMD210P-4X12	SMD205P-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.

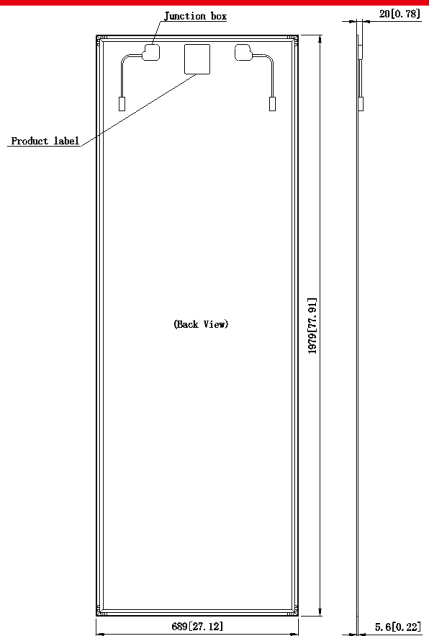
Mechanical Characteristics

Solar Cell	Polycrystalline silicon (6 inches)
No. of Cells	48 (4×12)
Module Dimensions	1979×689×5.6 mm (77.9×27.1×0.2 inch)
Weight	4.8 kgs (10.6 lbs)
Backsheet	White
Frame	Black Anodized Aluminium Alloy
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm^2, (+)150 / (-)450 mm
Connector	MC4 compatible

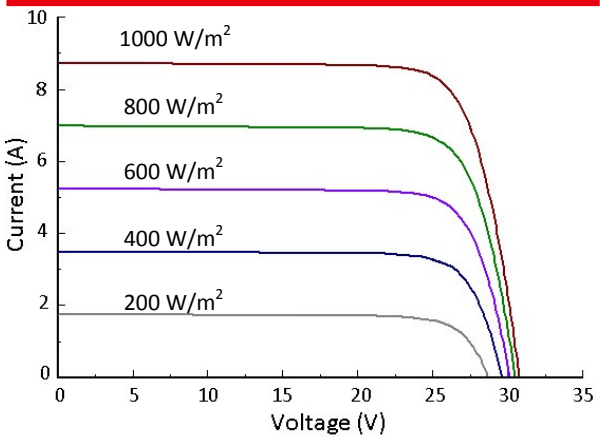
Packaging Configuration

	20' GP	40' HC
Module per pallet	54	54
Pieces per container	540	1080

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

SMD_IEC_EN_2017A

CAUTION: Read installation manual before using the product.