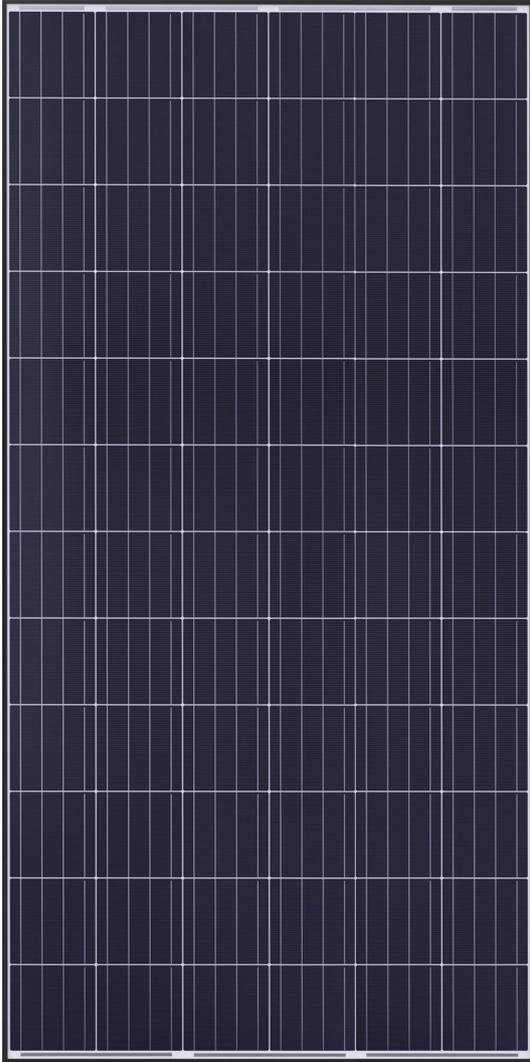


## 320 Watt

# 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.

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

**Easy Installation:** eArche can reduce installation cost significantly through the use of re-engineered components, ease of handling and faster installation.

**No-glass:** No fragile glass design lead to PID-free and more safety in handling, transportation, installation and operation.

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

**Deployment:** Ultra-light weight 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.

**315-320 W**

**POWER OUTPUT RANGE**

**0-5 W**

**POWER TOLERANCE**

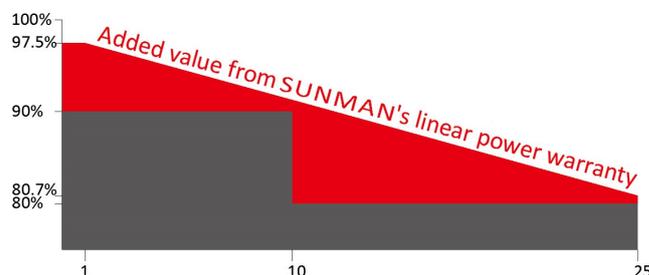
### LINEAR

### PERFORMANCE

### WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty



## Electrical Characteristics

STC	SMA320P-6X12	SMA315P-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 (%)	16.5	16.2
Operating Temperature ( $^{\circ}C$ )	-40 $^{\circ}C$ to 85 $^{\circ}C$	
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/m<sup>2</sup>, Cell temperature 25 $^{\circ}C$ , AM=1.5.

NOCT	SMA320P-6X12	SMA315P-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/m<sup>2</sup>, Ambient temperature 20 $^{\circ}C$ , Wind speed 1 m/s.

## Mechanical Characteristics

Solar Cell	Polycrystalline silicon (6 inches)
No. of Cells	72 (6 $\times$ 12)
Module Dimensions	1955 $\times$ 995 $\times$ 20 mm (77.0 $\times$ 39.2 $\times$ 0.8 inch)
Weight	8.2 kgs (18.1 lbs)
Backsheet	White
Frame	Black Anodized Aluminium Alloy
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm <sup>2</sup> , (+)150 / (-)450 mm
Connector	MC4 compatible

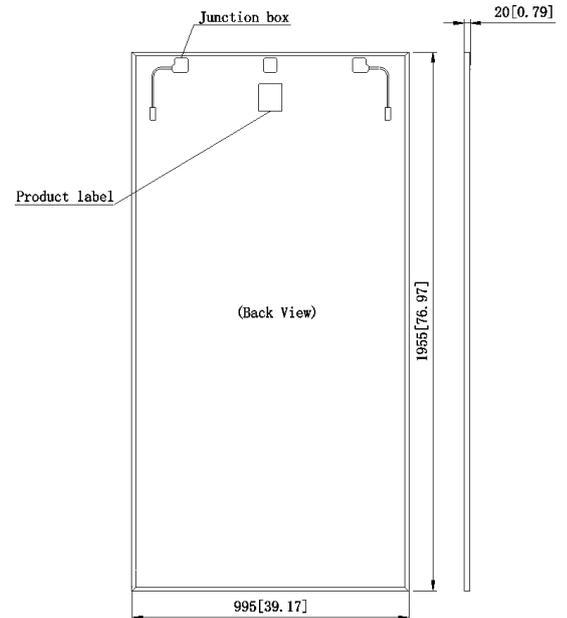
## Packaging Configuration

	20' GP	40' HC
Module per pallet	50	50
Pieces per container	250	1200

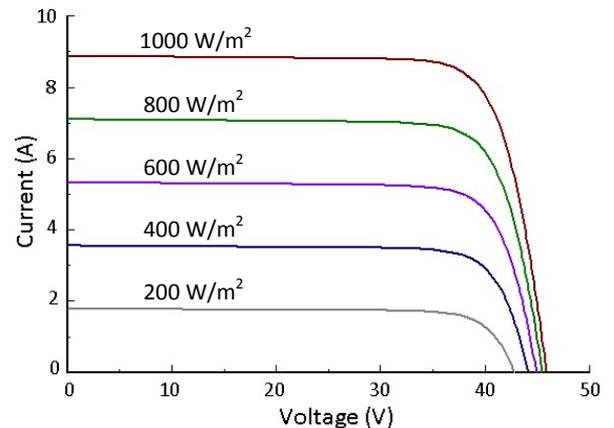
**CAUTION:** Read installation manual before using the product.

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## Dimensions



## I-V Curve (320)



## Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 $\pm$ 2 $^{\circ}C$
Temperature Coefficient of Pmax	-0.41 %/ $^{\circ}C$
Temperature Coefficient of Voc	-0.30 %/ $^{\circ}C$
Temperature Coefficient of Isc	0.048 %/ $^{\circ}C$

## Dealer Information