

# eArche

## 300 Watt

## 60 Cell Monocrystalline Module



**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 maximum test load (2400 Pascal), while special materials and stringent quality control ensure panel longevity.

### LINEAR PERFORMANCE WARRANTY



10 Year Product Warranty

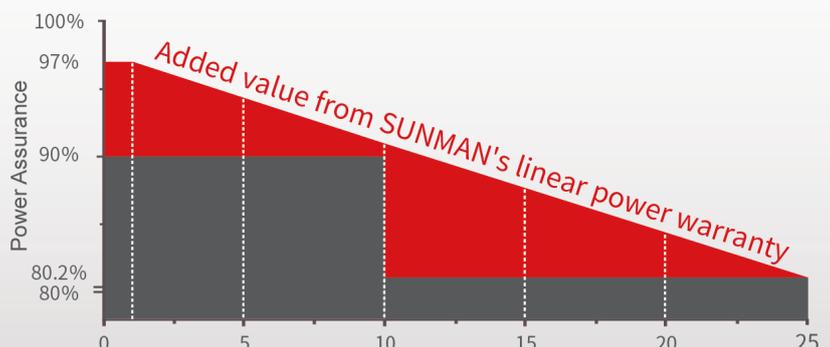
25 Year Linear Power Warranty

**295-300 W**

**POWER OUTPUT RANGE**

**0-5 W**

**POWER TOLERANCE**



## SMF300M-6X10UW

## SMF295M-6X10UW

### Electrical Characteristics

STC	SMF300M-6X10UW	SMF295M-6X10UW
Maximum Power ( $P_{max}$ )	300	295
Maximum Power Voltage ( $V_{mp}$ )	33.0	32.8
Maximum Power Current ( $I_{mp}$ )	9.10	9.00
Open-circuit Voltage ( $V_{oc}$ )	40.3	40.1
Short-circuit Current ( $I_{sc}$ )	9.61	9.52
Module Efficiency (%)	18.2	17.9
Operating Temperature ( $^{\circ}C$ )	-40 $^{\circ}C$ to 85 $^{\circ}C$	
Maximum System Voltage	1000 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.

Tolerances of  $P_{max}$ ,  $V_{oc}$  and  $I_{sc}$  are within  $\pm 5\%$

NMOT	SMF300M-6X10UW	SMF295M-6X10UW
Maximum Power ( $P_{max}$ )	225	221
Maximum Power Voltage ( $V_{mp}$ )	30.5	30.3
Maximum Power Current ( $I_{mp}$ )	7.38	7.30
Open-circuit Voltage ( $V_{oc}$ )	37.4	37.2
Short-circuit Current ( $I_{sc}$ )	7.85	7.76

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20 $^{\circ}C$ , AM=1.5, Wind speed 1 m/s.

### Mechanical Characteristics

Solar Cell	Monocrystalline silicon (6 inches)
No. of Cells	60 (6 $\times$ 10)
Module Dimensions	1661 $\times$ 990 $\times$ 2 mm (65.4 $\times$ 39.0 $\times$ 0.1 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 <sup>2</sup> , (+)150 / (-)450 mm
Connector	MC4 compatible

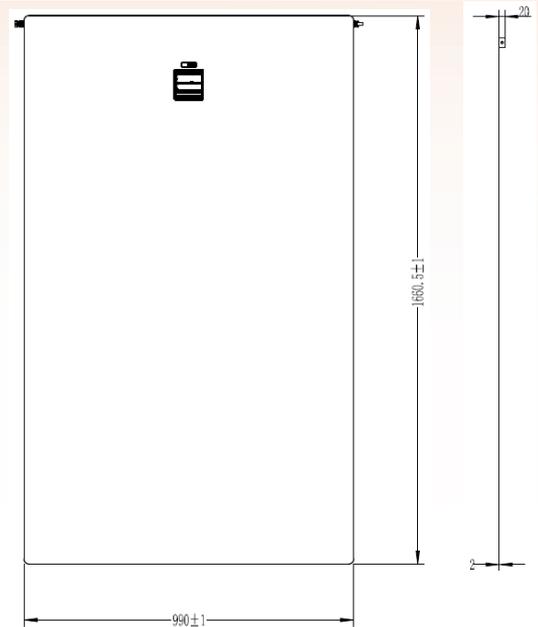
### Packaging Configuration

	20' GP	40' HC
Module per pallet	66	66
Pieces per container	396	1584

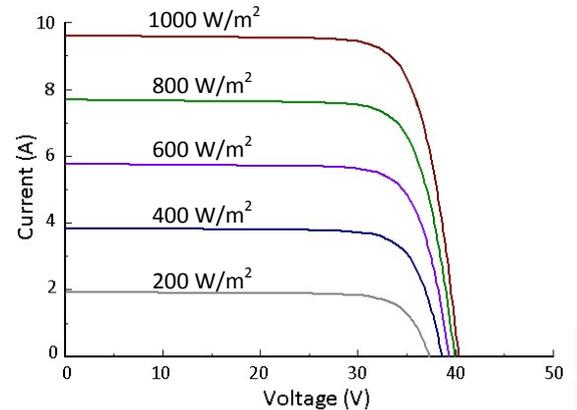
**CAUTION:** Read installation manual before using the product.

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### Dimensions



### I-V Curve (300)



### Temperature Characteristics

Nominal Module Operating Temperature(NMOT)	41 $\pm$ 2 $^{\circ}C$
Temperature Coefficient of Pmax	-0.38 %/ $^{\circ}C$
Temperature Coefficient of Voc	-0.28 %/ $^{\circ}C$
Temperature Coefficient of Isc	0.020 %/ $^{\circ}C$

### Dealer Information

SMFUW\_IEC\_EN\_2019A