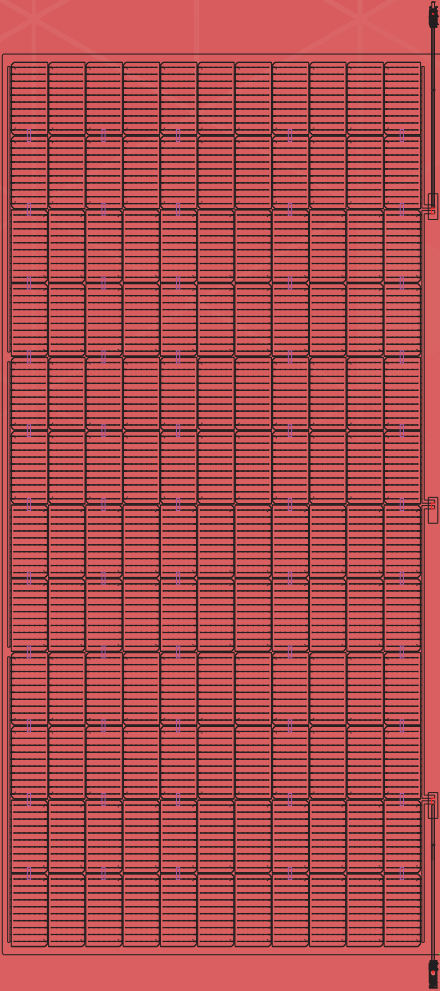


# eArc

## SMH475J-12X11UW

# 475 Watt

## 132 Half Cell Monocrystalline Module



**Ultra-light:** Glass free module weighs 5.6 kg, 70% lighter than conventional glass modules.



**Fast-Installation:** Through "Quick-Bonding" installation, eArc requires no penetration, reduces time on roof by 40% and eliminates the use of mounting hardware.



**Safety:** Seamless integration with underlying installation surface, ensuring the waterproof performance and safety performance of the roof.



**Durable:** eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL61730 (USA). eArc has also passed PID, salt mist level 8 tests.

POWER OUTPUT RANGE 475 W

POWER TOLERANCE 0-5 W

### LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

**25 Year Linear Power Warranty**



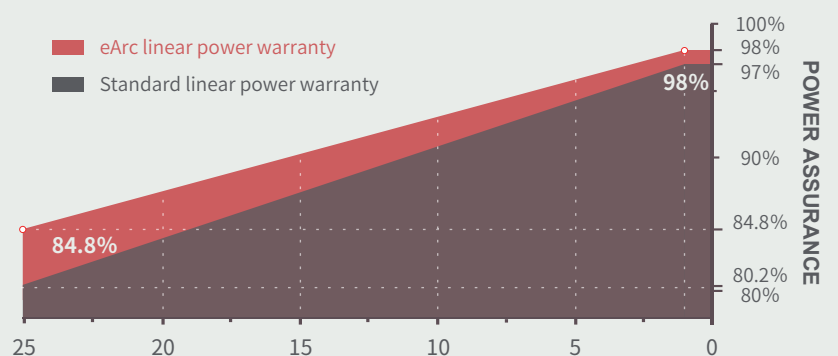
[www.sunman-energy.com](http://www.sunman-energy.com)



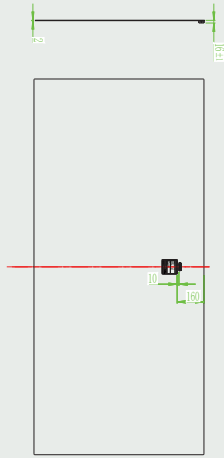
ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

CAUTION: Read installation manual before using the product.

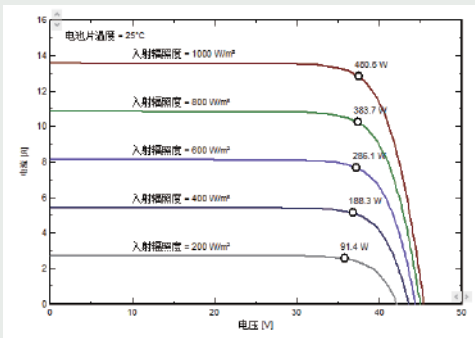
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## DIMENSIONS



## I-V CURVE (435)



## TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	41±2 °C
Temperature Coefficient of P <sub>max</sub>	-0.34 %/°C
Temperature Coefficient of V <sub>oc</sub>	-0.26 %/°C
Temperature Coefficient of I <sub>sc</sub>	0.033 %/°C

SMH475J/IEC EN 2023B 6

## ELECTRICAL CHARACTERISTICS

STC	SMH475J-12X11UW
Maximum Power (P <sub>max</sub> )	475
Maximum Power Voltage (V <sub>mp</sub> )	38.74
Maximum Power Current (I <sub>mp</sub> )	12.27
Open-circuit Voltage (V <sub>oc</sub> )	45.41
Short-circuit Current (I <sub>sc</sub> )	13.56
Module Efficiency (%)	19.3
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A
Application Class	Class A
Power Tolerance	0/+5 W

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM=1.5.

Tolerances of P<sub>max</sub>, V<sub>oc</sub> and I<sub>sc</sub> are within ±5%

NMOT	SMH475J-12X11UW
Maximum Power (P <sub>max</sub> )	391.0
Maximum Power Voltage (V <sub>mp</sub> )	38.1
Maximum Power Current (I <sub>mp</sub> )	10.26
Open-circuit Voltage (V <sub>oc</sub> )	45.6
Short-circuit Current (I <sub>sc</sub> )	10.84

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, AM=1.5, Wind speed 1 m/s.

## MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(182mm half cell)
No. of Cells	132 (12×11)
Module Dimensions	2246×1094×2 mm
Weight	5.6kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm
Connector	MC4 compatible

## PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	40	40
Pieces per container	160	800