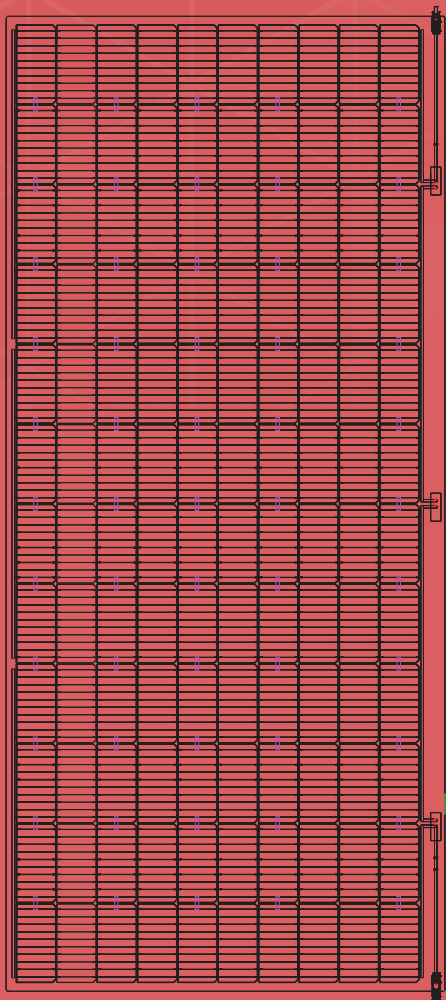


eArc

SMH435J-12X10UW

435 Watt
120 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 5.15kg, 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).

POWER OUTPUT RANGE 435 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

25 Year Linear Power Warranty



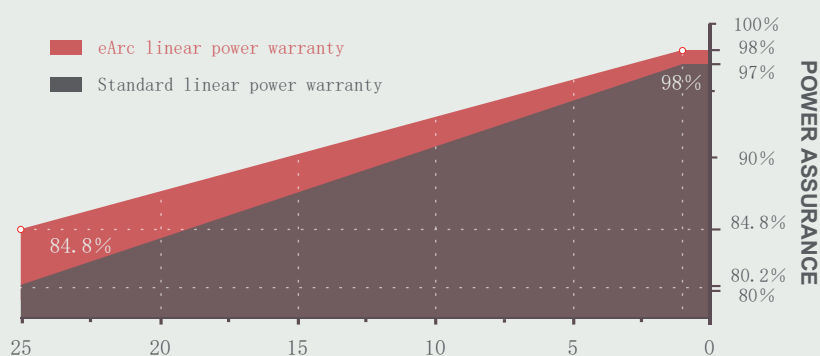
www.sunman-energy.com



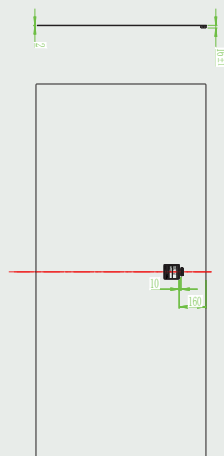
ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

CAUTION: Read installation manual before using the product.

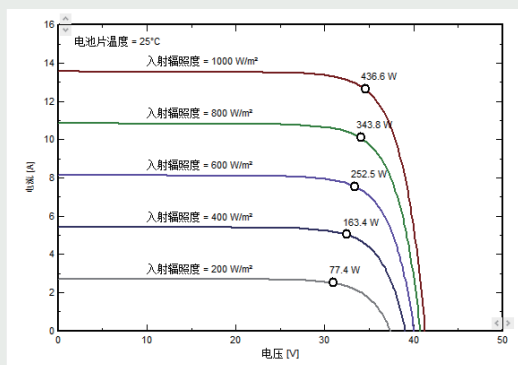
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DIMENSIONS



I-V CURVE (435)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT) **41±2 °C**

Temperature Coefficient of P_{max} **-0.34 %/°C**

Temperature Coefficient of V_{oc} **-0.26 %/°C**

Temperature Coefficient of I_{sc} **0.033 %/°C**



SMH Series has been certified to install on color-bond steel roof sheeting and Zincalume. Any other roof sheeting install requires consultation with Sunman or its local importer. Installation of SMF series requires sika SG 20 Silicone Adhesive.

SMH435J-12X10UW IEC EN 2023B 6

ELECTRICAL CHARACTERISTICS

STC	SMH435J-12X10UW
Maximum Power (P_{max})	435
Maximum Power Voltage (V_{mp})	35.22
Maximum Power Current (I_{mp})	12.36
Open-circuit Voltage (V_{oc})	41.28
Short-circuit Current (I_{sc})	13.56
Module Efficiency (%)	19.3
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Application Class	Class A
Power Tolerance	0/+5 W

STC: Irradiance 1000W/m², Cell temperature 25 °C, AM=1.5.

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

NMOT	SMH435J-12X10UW
Maximum Power (P_{max})	350.4
Maximum Power Voltage (V_{mp})	34.7
Maximum Power Current (I_{mp})	10.09
Open-circuit Voltage (V_{oc})	41.4
Short-circuit Current (I_{sc})	10.83

NMOT: Irradiance 800W/m², Ambient temperature 20 °C, AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(182mm half cell)
No. of Cells	120 (12×10)
Module Dimensions	2246×1011×2 mm
Weight	5.15kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm
Connector	XTONG : PV-XT101.1 

PACKAGING CONFIGURATION

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