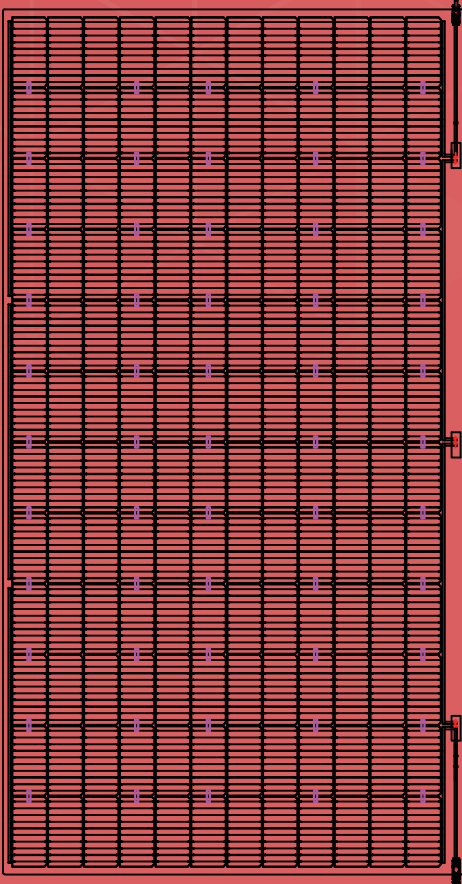


eArc

SMH520J-12X12UW/UB

520 Watt

144 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 6.10 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).

POWER OUTPUT RANGE 520 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

25 Year Linear Power Warranty



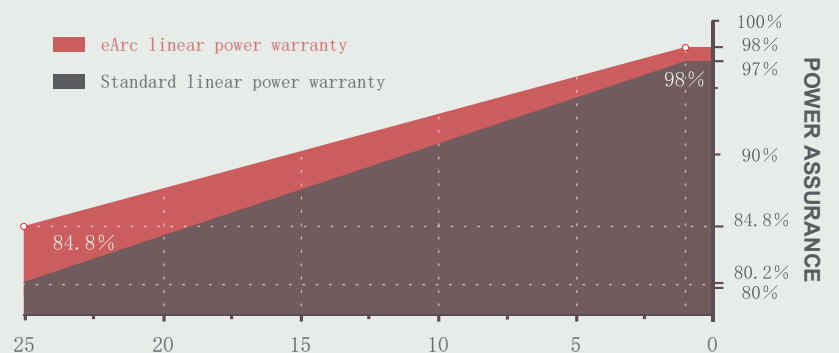
www.sunman-energy.com



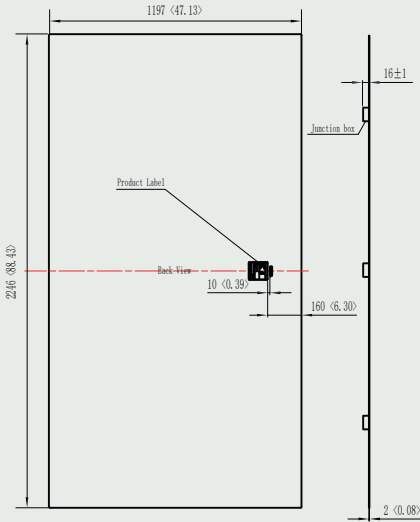
ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

CAUTION: Read installation manual before using the product.

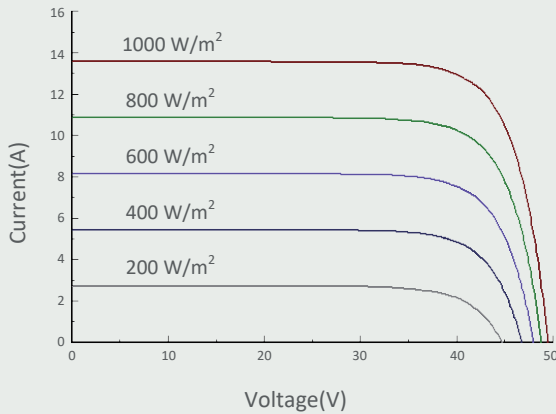
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DIMENSIONS



I-V CURVE (520)



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/UC/IEC EN 2023B 6

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

ELECTRICAL CHARACTERISTICS

STC	SMH520J-12X12UW/UB
Maximum Power (P_{max})	520
Maximum Power Voltage (V_{mp})	42.26
Maximum Power Current (I_{mp})	12.31
Open-circuit Voltage (V_{oc})	49.54
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	SMH520J-12X12UW/UB
Maximum Power (P_{max})	418.8
Maximum Power Voltage (V_{mp})	41.4
Maximum Power Current (I_{mp})	10.11
Open-circuit Voltage (V_{oc})	49.6
Short-circuit Current (I_{sc})	10.82

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	144 (12×12)
Module Dimensions	2246×1197×2 mm
Weight	6.10kg
Backsheet	White/Black
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	680