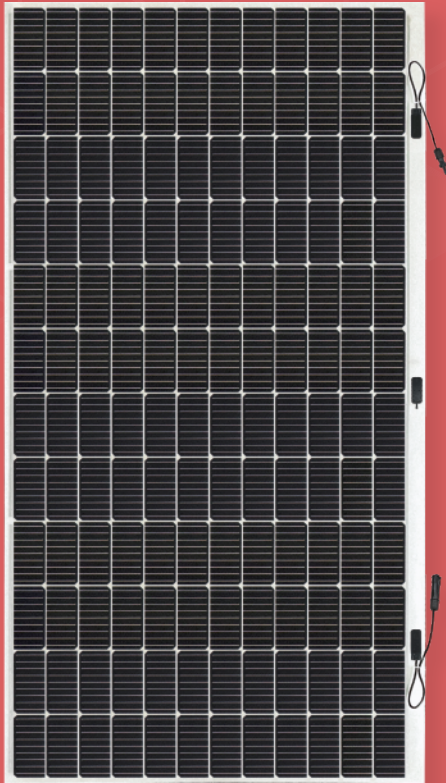


eArc

SMF520J-12X12UW

520 Watt

144 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 7.2 kg, 70% lighter than conventional glass modules.



Fast-Installation: Through “Quick-Bonding” installation, eArc requires no penetration, reduces time on roof and saves installation costs.



Safety: 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 61215:2021, IEC61730:2023 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

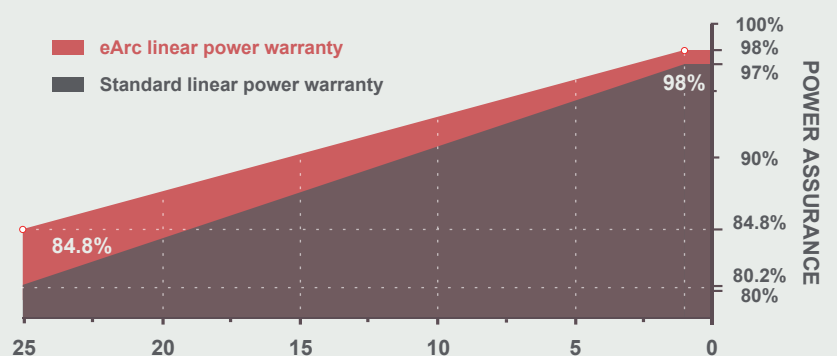


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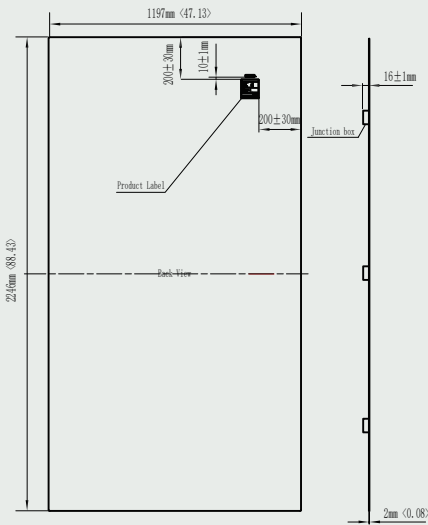
Linear power warranty: 98% in the first year, thereafter, for years two (2) through twenty-five (25), 0.55% maximum decrease from Module's nominal power output per year, ending with the 84.8% in the 25th year.

CAUTION: Read installation manual before using the product.

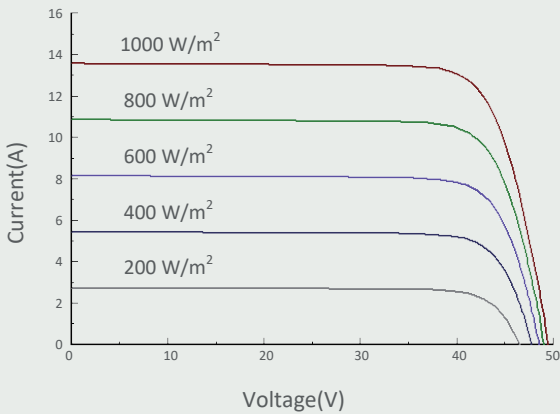
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DIMENSIONS



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



SMF520 IEC AU 2025A 2

ELECTRICAL CHARACTERISTICS

STC SMF520J-12X12UW

Maximum Power (P_{max})	520 W
Maximum Power Voltage (V_{mp})	42.26 V
Maximum Power Current (I_{mp})	12.31 A
Open-circuit Voltage (V_{oc})	49.54 V
Short-circuit Current (I_{sc})	13.56 A
Module Efficiency (%)	19.3
Operating Temperature	-40 °C to 70 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Safety Class	Class II
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 SMF520J-12X12UW

Maximum Power (P_{max})	429.2 W
Maximum Power Voltage (V_{mp})	41.8 V
Maximum Power Current (I_{mp})	10.26 A
Open-circuit Voltage (V_{oc})	49.8 V
Short-circuit Current (I_{sc})	10.82 A

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	7.2kg ±3%
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm
Connector	Stäubli MC4-EVO2

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	66	66&50
Pieces per container	264	828