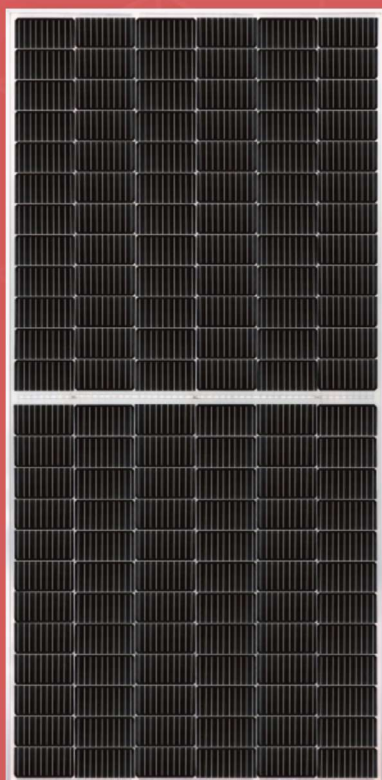


eArc

SMB520J-6X24DW

520 Watt

144 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 9.6 kg, 60% lighter than conventional glass modules.



Fast-Installation: Easy handling and quick installation which reduce installation costs and improve safety.



No Light Pollution: Glass-free design significantly reduces light pollution.



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

12 Year Product Warranty

25 Year Linear Power Warranty



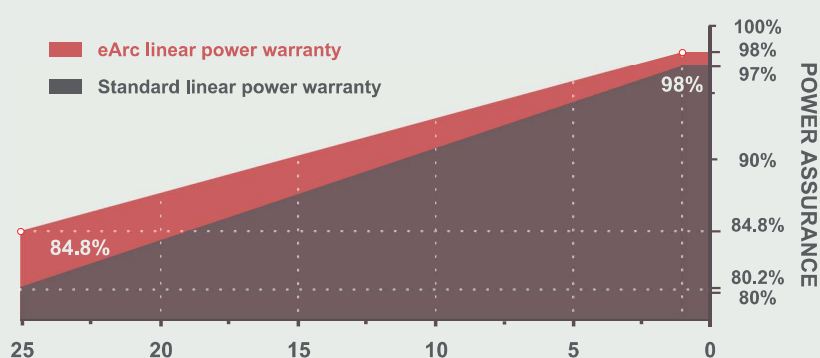
www.sunman-energy.com

ULTRA-LIGHT SOLAR PANEL

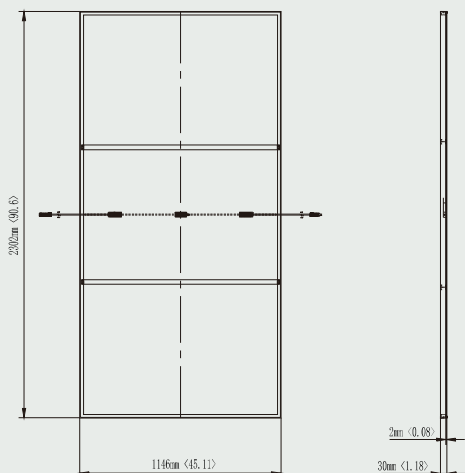
Made in China

LINEAR PERFORMANCE WARRANTY

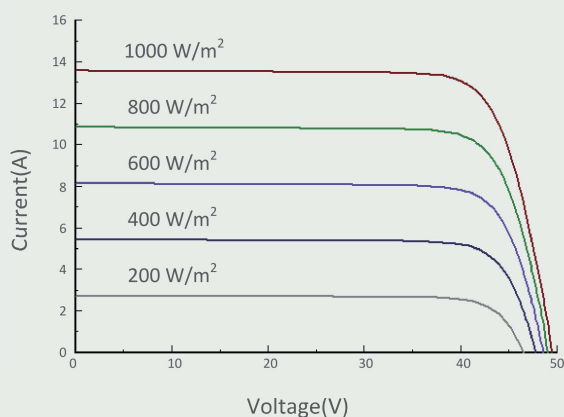
CAUTION: Read installation manual before using the product.
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DIMENSIONS



I-V CURVE (520) @25



TEMPERATURE CHARACTERISTICS

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

Temperature Coefficient of P_{max} **-0.3 %/°C**

Temperature Coefficient of V_{oc} **-0.23 %/°C**

Temperature Coefficient of I_{sc} **0.02 %/°C**



SMBDW IEC EN 2025D 8 TM

ELECTRICAL CHARACTERISTICS

STC	SMB520J-6X24DW
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 (%)	19.71
Operating Temperature(T98)	-40 °C to 70 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Application Class	Class A
Power Tolerance	0/+5 W
Fire class rating	Class C

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

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

NMOT	SMB520J-6X24DW
Maximum Power (P_{max})	429.2
Maximum Power Voltage (V_{mp})	41.8
Maximum Power Current (I_{mp})	10.26
Open-circuit Voltage (V_{oc})	49.8
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 (6×24)
Module Dimensions	2302×1146×30mm
Weight	9.6kg ±3%
Backsheet	White
Frame	Anodized Aluminium Alloy
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)300 / (-)300 mm
Connector	Stäubli Electrical Connectors AG PV-KST4-EVO2A/xy / PV-KBT4-EVO2A/xy

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	36	36
Pieces per container	144	720