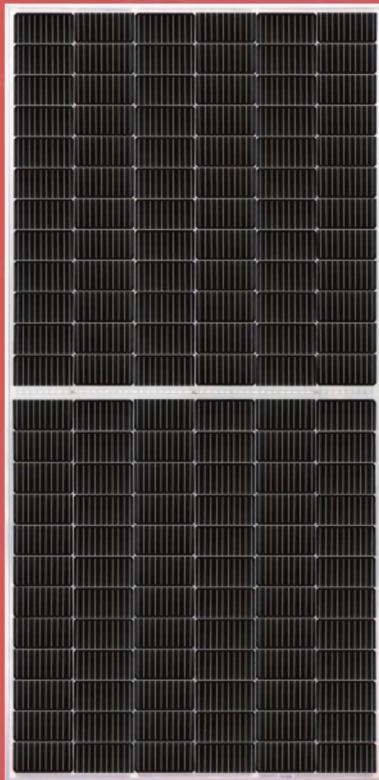


# eArc

**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

## LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

CAUTION: Read installation manual before using the product.  
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**25 Year Linear Power Warranty**

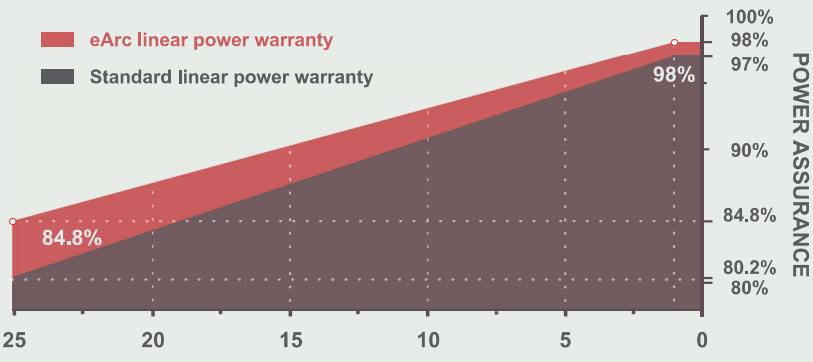


[www.sunman-energy.com](http://www.sunman-energy.com)

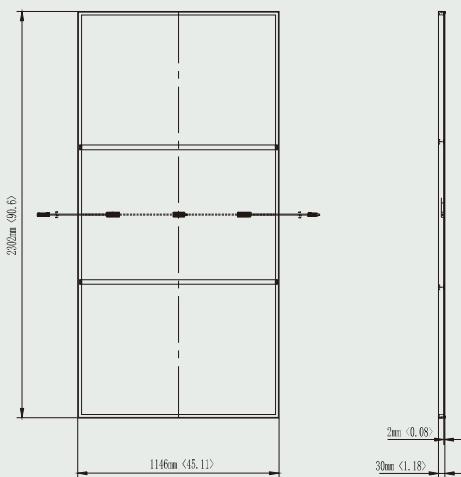


ULTRA-LIGHT SOLAR PANEL

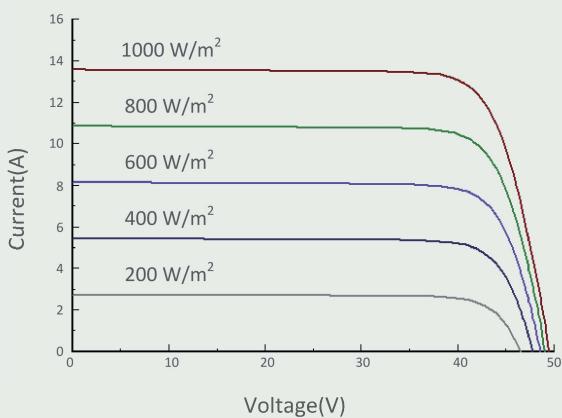
Made in China



## 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



## 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 mm², (+)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