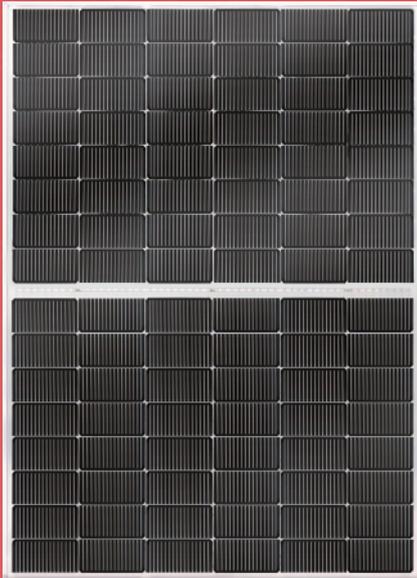


eArc

SMB445R-6X16DW-G

445 Watt

96 N Type Half Cell Monocrystalline Module



Ultra-light: With ultra-thin glass and innovative encapsulation technology, this module weighs only 14.6 kg. 40% lighter than conventional glass modules.



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



Aesthetic and reliable: Flat appearance, with excellent loading capacity and hail resistance.



Durable: Excellent weather resistance and fire resistance. Certified to IEC 61215:2021, IEC61730:2023 and UL61730.

POWER OUTPUT RANGE 445 W

POWER TOLERANCE 0-5 W

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

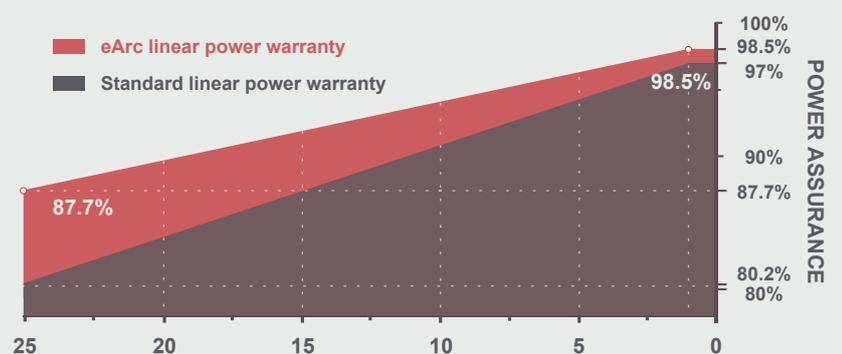
25 Year Linear Power Warranty



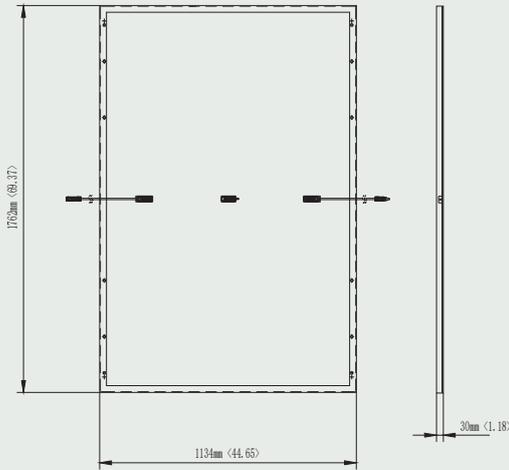
www.sunman-energy.com

CAUTION: Read installation manual before using the product.

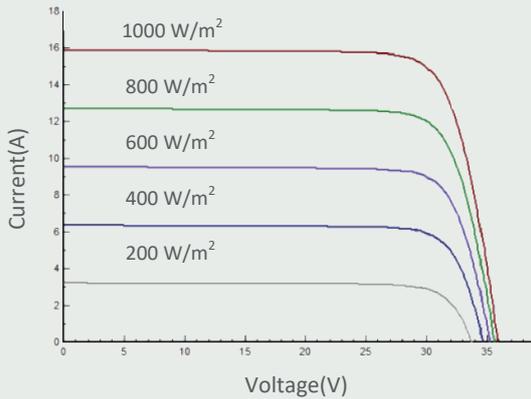
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DIMENSIONS



I-V CURVE (445)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NMOT)	41±2 °C
Temperature Coefficient of P_{max}	-0.29 %/°C
Temperature Coefficient of V_{oc}	-0.25 %/°C
Temperature Coefficient of I_{sc}	0.045 %/°C



SMBDW IEC EN 2025A 7 TM

ELECTRICAL CHARACTERISTICS

STC	SMB445R-6X16DW-G
Maximum Power (P_{max})	445
Maximum Power Voltage (V_{mp})	29.98
Maximum Power Current (I_{mp})	14.86
Open-circuit Voltage (V_{oc})	35.77
Short-circuit Current (I_{sc})	15.79
Module Efficiency (%)	22.27
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	SMB445R-6X16DW-G
Maximum Power (P_{max})	361.5
Maximum Power Voltage (V_{mp})	30.20
Maximum Power Current (I_{mp})	11.98
Open-circuit Voltage (V_{oc})	35.80
Short-circuit Current (I_{sc})	12.60

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

MECHANICAL CHARACTERISTICS

Solar Cell	N Type Monocrystalline silicon(210mm half cell)
No. of Cells	96 (6×16)
Module Dimensions	1762×1134×30mm
Weight	14.6kg ±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	MC4-EVO2

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	36	36
Pieces per container	1008	1296