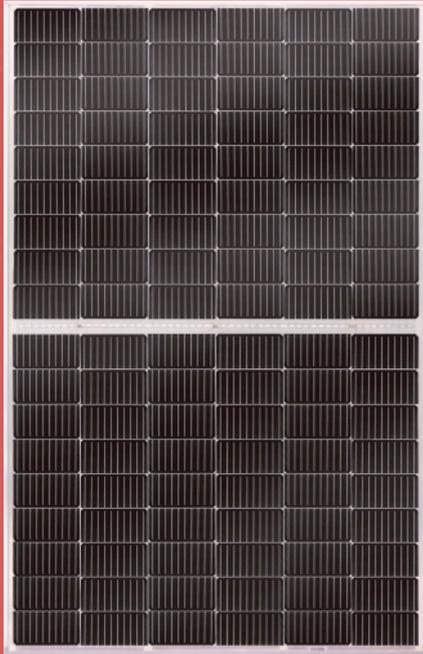


eArc

SMB445N-6X18DW-G

445 Watt

108 N Type Half Cell Monocrystalline Module



Ultra-light: With ultra-thin glass and innovative encapsulation technology, this module weighs only 14.3 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: 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 445 W

POWER TOLERANCE 0-5 W

12 Year Product Warranty

25 Year Linear Power Warranty

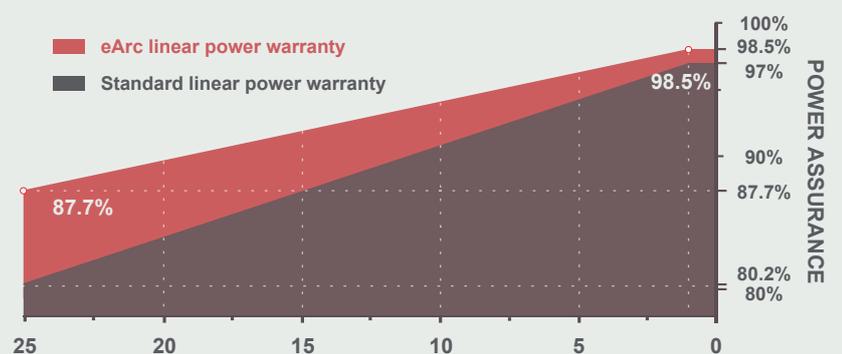


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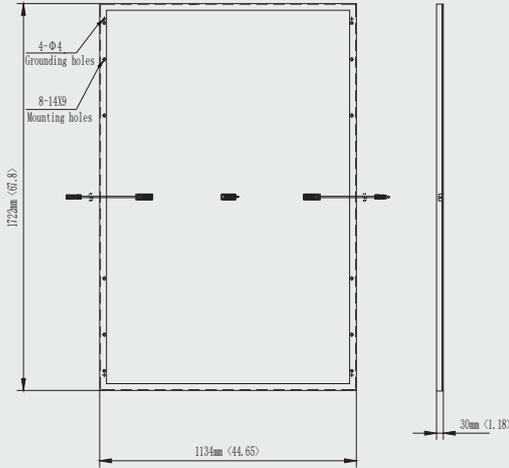
LINEAR PERFORMANCE WARRANTY

CAUTION: Read installation manual before using the product.

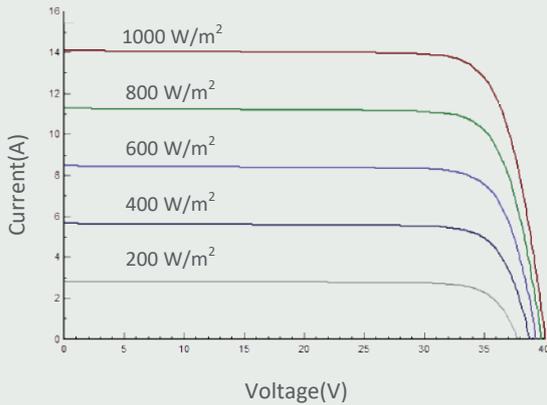
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DIMENSIONS



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 6 TM

ELECTRICAL CHARACTERISTICS

STC	SMB445N-6X18DW-G
Maximum Power (P _{max})	445
Maximum Power Voltage (V _{mp})	33.24
Maximum Power Current (I _{mp})	13.39
Open-circuit Voltage (V _{oc})	39.45
Short-circuit Current (I _{sc})	14.10
Module Efficiency (%)	22.79
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	SMB445N-6X18DW-G
Maximum Power (P _{max})	362.7
Maximum Power Voltage (V _{mp})	33.87
Maximum Power Current (I _{mp})	10.71
Open-circuit Voltage (V _{oc})	39.80
Short-circuit Current (I _{sc})	11.27

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

MECHANICAL CHARACTERISTICS

Solar Cell	N Type Monocrystalline silicon(182mm half cell)
No. of Cells	108 (6×18)
Module Dimensions	1722×1134×30mm
Weight	14.3kg ±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	432	864