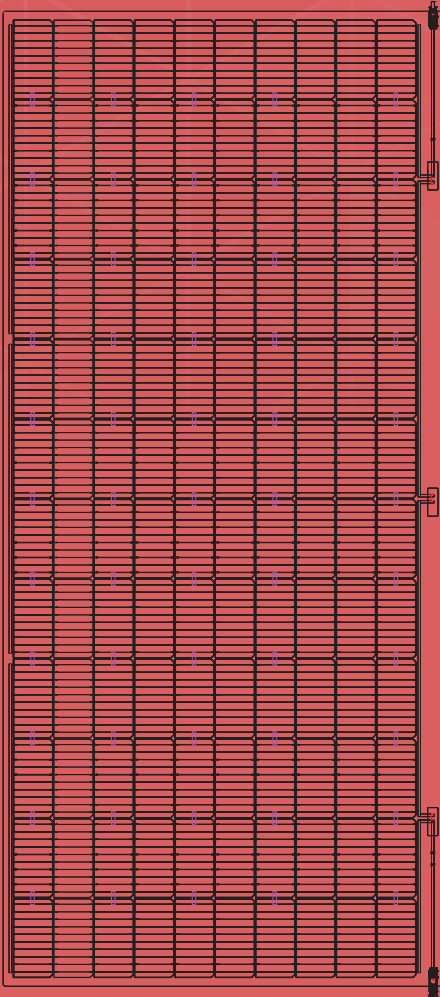


eArc

SMH435J-12X10UW

435 Watt

120 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 5.2 kg, 70% lighter than conventional glass modules.



Fast-Installation: Through "Quick-Bonding" installation, eArc requires no penetration, reduces time on roof by 40% and eliminates the use of mounting hardware.



Safety: Seamless 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 61215:2016, IEC61730:2016 and UL61730 (USA). eArc has also passed PID, salt mist level 8 tests.

POWER OUTPUT RANGE 435 W

POWER TOLERANCE 0-5 W

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

25 Year Linear Power Warranty



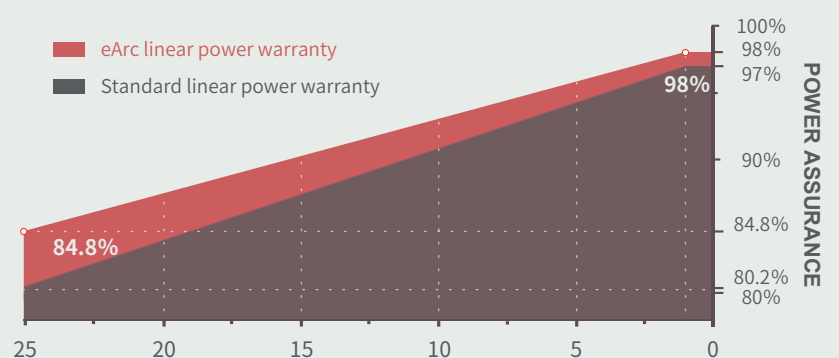
www.sunman-energy.com



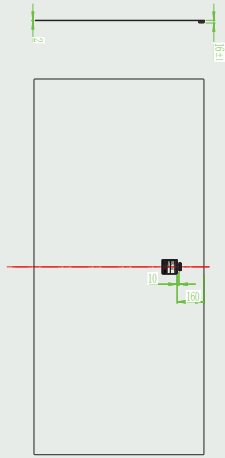
ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

CAUTION: Read installation manual before using the product.

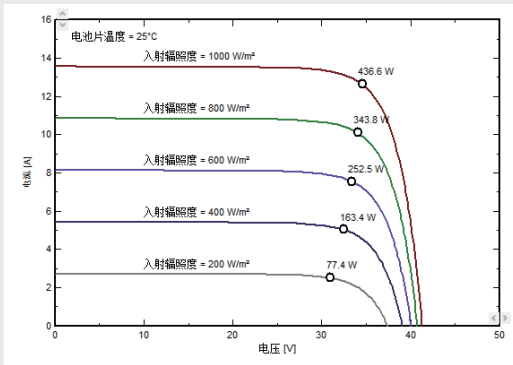
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DIMENSIONS



I-V CURVE (435)



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 |

SMH435J/IEC EN 2023B 6

ELECTRICAL CHARACTERISTICS

| STC | SMH435J-12X10UW |
|------------------------------------|-----------------|
| Maximum Power (P_{max}) | 435 |
| Maximum Power Voltage (V_{mp}) | 35.22 |
| Maximum Power Current (I_{mp}) | 12.36 |
| Open-circuit Voltage (V_{oc}) | 41.28 |
| Short-circuit Current (I_{sc}) | 13.56 |
| Module Efficiency (%) | 19.3 |
| Operating Temperature | -40 °C to 85 °C |
| Maximum System Voltage | 1500 V DC (IEC) |
| Maximum Series Fuse Rating | 30 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 | SMH435J-12X10UW |
|------------------------------------|-----------------|
| Maximum Power (P_{max}) | 350.4 |
| Maximum Power Voltage (V_{mp}) | 34.7 |
| Maximum Power Current (I_{mp}) | 10.09 |
| Open-circuit Voltage (V_{oc}) | 41.4 |
| Short-circuit Current (I_{sc}) | 10.83 |

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 | 120 (12×10) |
| Module Dimensions | 2246×1011×2 mm |
| Weight | 5.2kg |
| Backsheet | White |
| Frame | Frameless |
| J-box | IP 68 rated |
| Output Cables | Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm |
| Connector | MC4 compatible |

PACKAGING CONFIGURATION

| | 20' GP | 40' HC |
|----------------------|--------|--------|
| Module per pallet | 40 | 40 |
| Pieces per container | 160 | 800 |