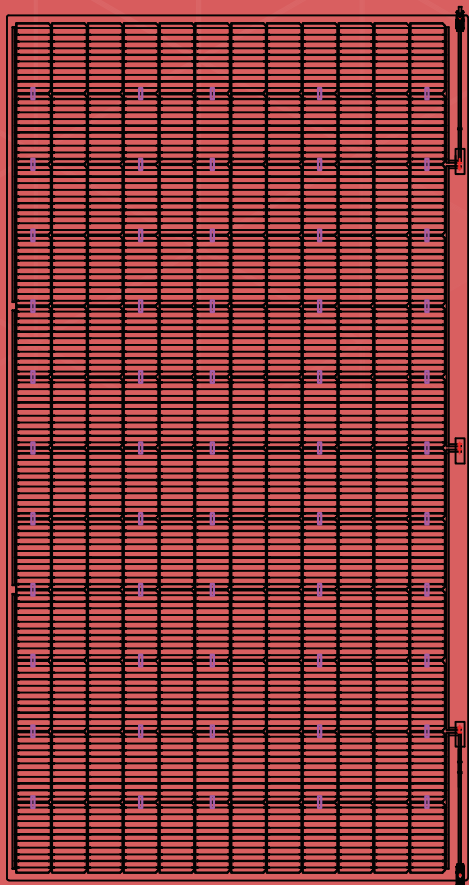


eArc

SMH430F-12X12DW/DB

430 Watt
144 Half Cell Monocrystalline Module



Ultra-light: Glass free module weighs 5.05 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).

POWER OUTPUT RANGE 430 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

25 Year Linear Power Warranty



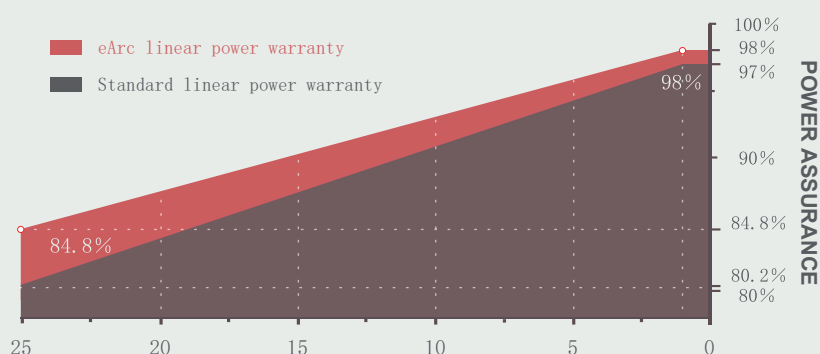
www.sunman-energy.com



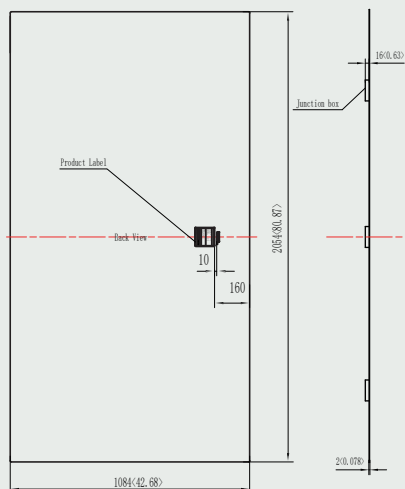
ULTRA-LIGHT & FLEXIBLE SOLAR PANEL

CAUTION: Read installation manual before using the product.

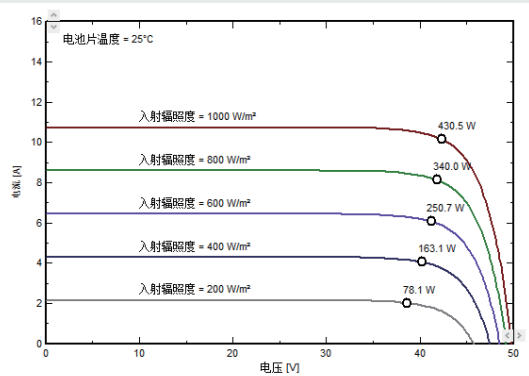
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DIMENSIONS



I-V CURVE (430)



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**



SMHDW/IEC EN 2023B 6

ELECTRICAL CHARACTERISTICS

STC SMH430F-12X12DW/DB

Maximum Power (P_{max})	430
Maximum Power Voltage (V_{mp})	42.00
Maximum Power Current (I_{mp})	10.24
Open-circuit Voltage (V_{oc})	49.80
Short-circuit Current (I_{sc})	10.74
Module Efficiency (%)	19.3
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	20 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 SMH430F-12X12DW/DB

Maximum Power (P_{max})	346.2
Maximum Power Voltage (V_{mp})	42.7
Maximum Power Current (I_{mp})	8.11
Open-circuit Voltage (V_{oc})	50.0
Short-circuit Current (I_{sc})	8.57

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(166mm half cell)
No. of Cells	144 (12×12)
Module Dimensions	2054×1084×2 mm
Weight	5.05kg
Backsheet	White/Black
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)450 / (-)450 mm
Connector	XTONG : PV-XT101.1 

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	40	40
Pieces per container	200	800