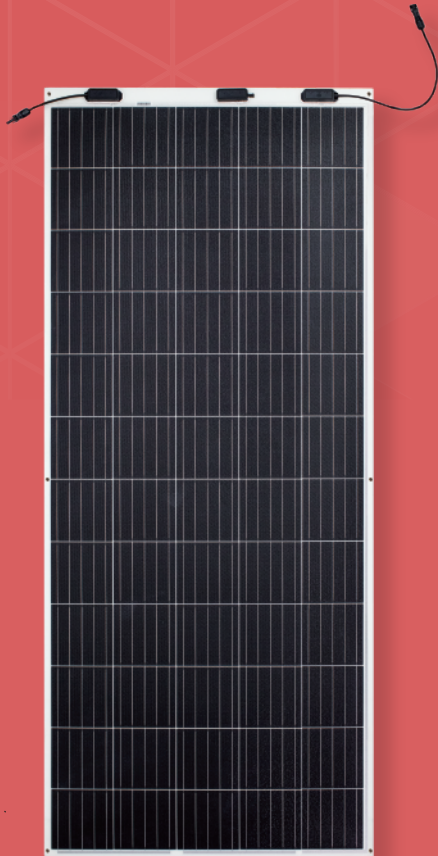


eArc

SMF310M-5X12UW

310 Watt

60 Cell Monocrystalline Module



Ultra-light: Glass free module weighs 5.0 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.



Aesthetic: Seamless integration with underlying installation surface.



Durable: eArc is the first glassless module to pass the same durability tests as conventional glass modules, including IEC 61215:2016, IEC61730:2016 and UL1703 (USA).

POWER OUTPUT RANGE 305~310 W

POWER TOLERANCE 0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

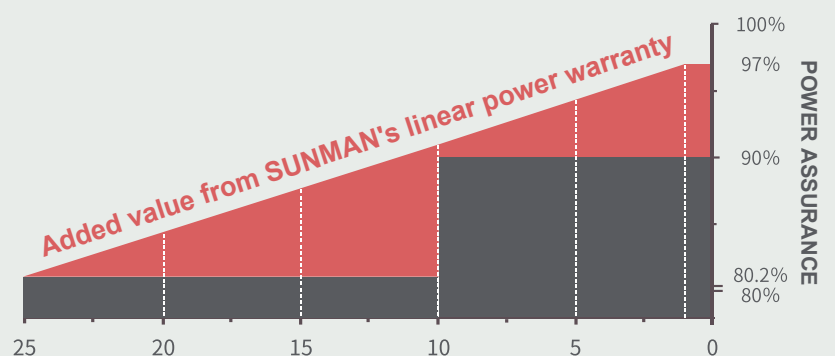
25 Year Linear Power Warranty



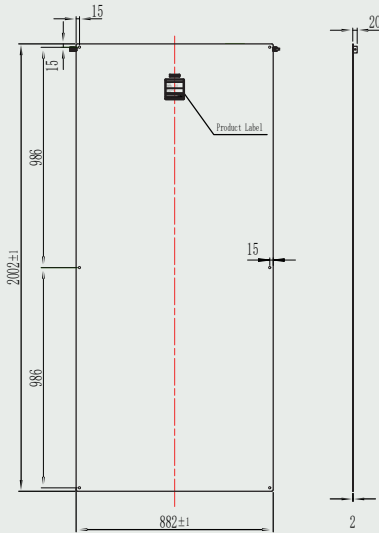
www.sunman-energy.com

CAUTION: Read installation manual before using the product.

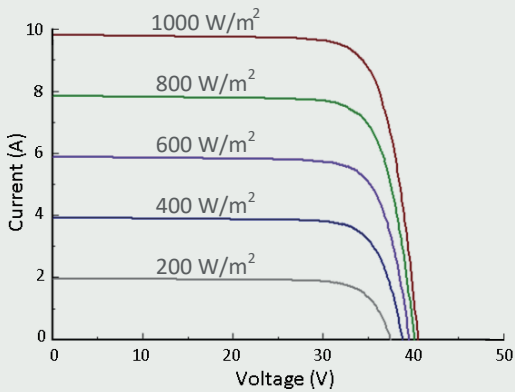
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DIMENSIONS



I-V CURVE (310)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT)	41±2 °C
Temperature Coefficient of P _{max}	-0.38 %/°C
Temperature Coefficient of V _{oc}	-0.28 %/°C
Temperature Coefficient of I _{sc}	0.020 %/°C

Fire resistance:
C in accordance with UL 790

SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.
Any other roof sheeting install requires consultation with Sunman or its local importer.
Installation of SMD and SMF series panels require Sika Sikasil SG-20 or Tonsan 1527.
Mounting module with clamps is not suitable.
Please refer to installation manual for mounting method.

SMF310M IEC AU 2021A

ELECTRICAL CHARACTERISTICS

STC	SMF305M-5X12UW	SMF310M-5X12UW
Maximum Power (P _{max})	305	310
Maximum Power Voltage (V _{mp})	33.0	33.3
Maximum Power Current (I _{mp})	9.25	9.31
Open-circuit Voltage (V _{oc})	40.3	40.5
Short-circuit Current (I _{sc})	9.74	9.81
Module Efficiency (%)	17.3	17.6
Operating Temperature	-40 °C to 85 °C	
Maximum System Voltage	1000 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	SMF305M-5X12UW	SMF310M-5X12UW
Maximum Power (P _{max})	229	233
Maximum Power Voltage (V _{mp})	30.5	30.7
Maximum Power Current (I _{mp})	7.51	7.59
Open-circuit Voltage (V _{oc})	37.4	37.6
Short-circuit Current (I _{sc})	7.96	8.04

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

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon (158.75mm)
No. of Cells	60 (5×12)
Module Dimensions	2002×882×2 mm
Weight	5.0kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)150 / (-)450 mm
Connector	Dawning: C1

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	66	66
Pieces per container	660	1452