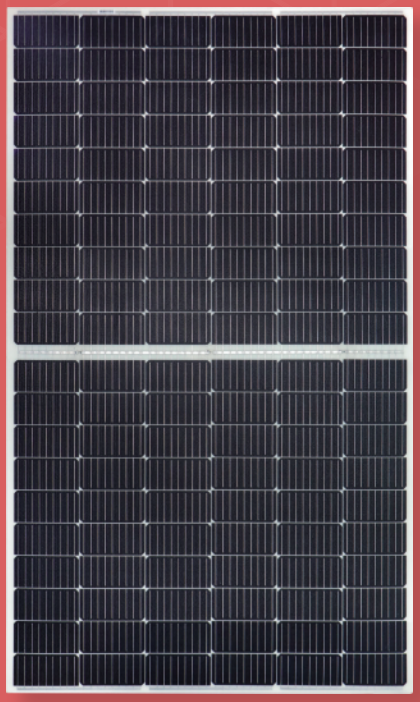
SUNMAN
Lightweight Solar Pioneer

eArc

SMF360F-6X20DW

360 Watt

120 Half Cell Monocystalline Module



Ultra-light: Glass free module weighs 6.1 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.

POWER OUTPUT RANGE	355~360 W
POWER TOLERANCE	0-5 W

MADE IN CHINA

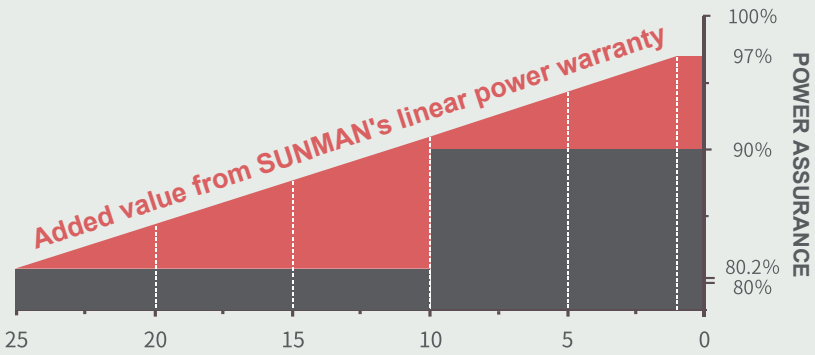
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty

www.sunman-energy.com

ULTRA-LIGHT&FLEXIBLE SOLAR PANEL



SUNMAN
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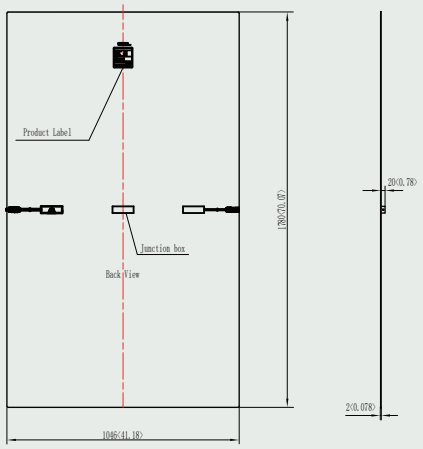
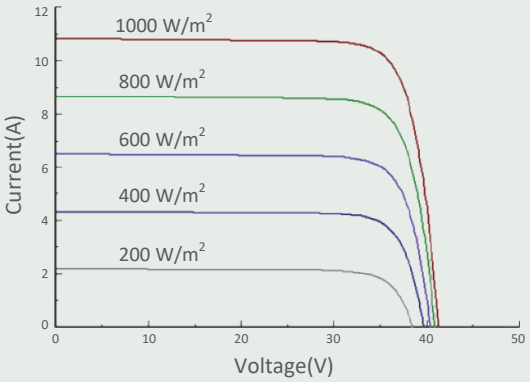
DIMENSIONS



I-V CURVE (360)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT)	41±2℃
Temperature Coefficient of P_{max}	-0.38 %/℃
Temperature Coefficient of V_{oc}	-0.28 %/℃
Temperature Coefficient of I_{sc}	0.020 %/℃

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.

SMFDW IEC AU 2021A

ELECTRICAL CHARACTERISTICS

STC	SMF355F-6X20DW	SMF360F-6X20DW
Maximum Power (P_{max})	355	360
Maximum Power Voltage (V_{mp})	34.7	34.9
Maximum Power Current (I_{mp})	10.24	10.32
Open-circuit Voltage (V_{oc})	41.1	41.3
Short-circuit Current (I_{sc})	10.72	10.82
Module Efficiency (%)	19.1	19.3
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℃, AM=1.5. Tolerances of P_{max}, V_{oc} and I_{sc} are within ±5%

NMOT	SMF355F-6X20DW	SMF360F-6X20DW
Maximum Power (P_{max})	268.4	272.2
Maximum Power Voltage (V_{mp})	32.0	32.2
Maximum Power Current (I_{mp})	8.39	8.46
Open-circuit Voltage (V_{oc})	38.6	38.8
Short-circuit Current (I_{sc})	8.69	8.77

NMOT: Irradiance 800W/m 2, Ambient temperature 20℃,AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(166mm half cell)
No. of Cells	120 (6×20)
Module Dimensions	1780×1046×2 mm
Weight	6.1kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2, (+)150 / (-)450 mm
Connector	Dawning: C1 DAWNING

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	66+50	66
Pieces per container	696	1584

SUNMAN
Lightweight Solar Pioneer

eArc

SMF430F-6X24DW

430 Watt

144 Half Cell Monocystalline Module

Ultra-light: Glass free module weighs 7.2 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.

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.

POWER OUTPUT RANGE	425~430 W
POWER TOLERANCE	0-5 W

MADE IN CHINA

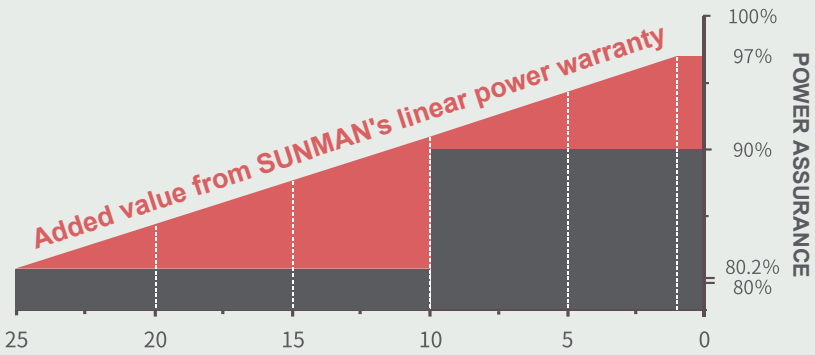
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty

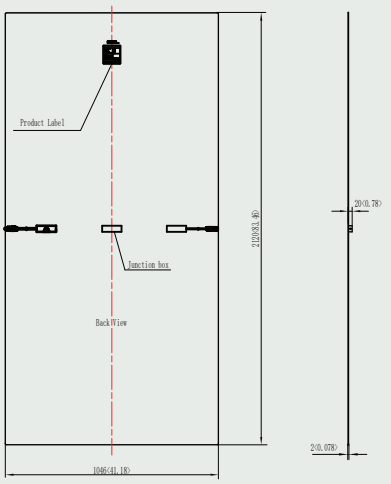
www.sunman-energy.com

ULTRA-LIGHT&FLEXIBLE SOLAR PANEL

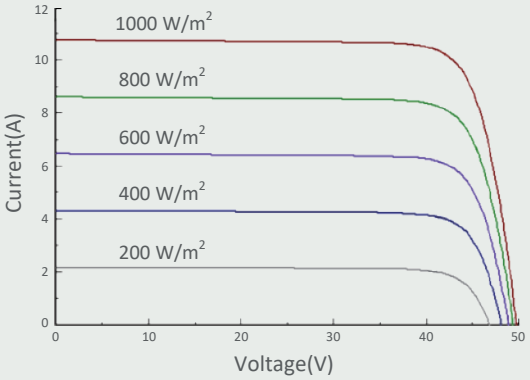


SUNMAN
Lightweight Solar Pioneer

DIMENSIONS



I-V CURVE (430)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT)	41±2℃
Temperature Coefficient of P_{max}	-0.38 %/℃
Temperature Coefficient of V_{oc}	-0.28 %/℃
Temperature Coefficient of I_{sc}	0.020 %/℃

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.

SMFDW IEC AU 2021A

ELECTRICAL CHARACTERISTICS

STC	SMF425F-6X24DW	SMF430F-6X24DW
Maximum Power (P_{max})	425	430
Maximum Power Voltage (V_{mp})	41.8	42.0
Maximum Power Current (I_{mp})	10.17	10.24
Open-circuit Voltage (V_{oc})	49.6	49.8
Short-circuit Current (I_{sc})	10.67	10.74
Module Efficiency (%)	19.2	19.4
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℃, AM=1.5. Tolerances of P_{max}, V_{oc} and I_{sc} are within ±5%

NMOT	SMF425F-6X24DW	SMF430F-6X24DW
Maximum Power (P_{max})	321.4	325.1
Maximum Power Voltage (V_{mp})	38.6	38.8
Maximum Power Current (I_{mp})	8.33	8.38
Open-circuit Voltage (V_{oc})	46.6	46.8
Short-circuit Current (I_{sc})	8.64	8.69

NMOT: Irradiance 800W/m 2 , Ambient temperature 20℃,AM=1.5, Wind speed 1 m/s.

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(166mm half cell)
No. of Cells	144 (6×24)
Module Dimensions	2120×1046×2 mm
Weight	7.2kg
Backsheet	White
Frame	Frameless
J-box	IP 68 rated
Output Cables	Photovoltaic technology cable 4.0 mm 2 , (+)150 / (-)450 mm
Connector	Dawning: C1 DAWNING

PACKAGING CONFIGURATION

	20' GP	40' HC
Module per pallet	66+50	66
Pieces per container	580	1320