

eArc **SMF215F-4X18UW**

215 Watt

72 Half Cell Monocystalline Module





Ultra-light: Glass free module weighs 3.8 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 210~215 W

POWER TOLERANCE

0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty







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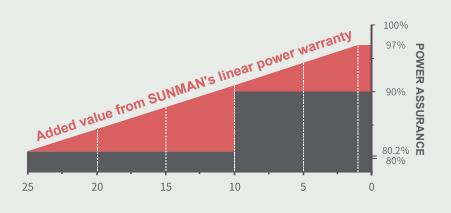


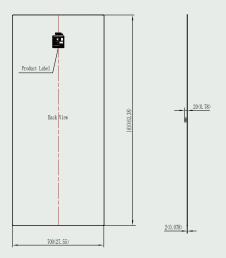




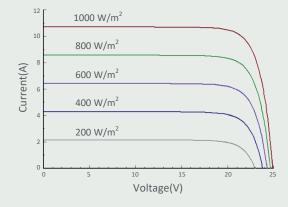








I-V CURVE (215)



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 %/℃



SMD and SMF series panels have been certified to installed on Colorbond roof sheeting and Zincalume.

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.

SMFUW



ELECTRICAL CHARACTERISTICS

STC	SMF210F-4X18UW	SMF215F-4X18UW	
Maximum Power (P _{max})	210	215	
Maximum Power Voltage (V _{mp})	20.8	21.0	
Maximum Power Current (I _{mp})	10.10	10.24	
Open-circuit Voltage (V _{oc})	24.7	24.9	
Short-circuit Current (I _{sc})	10.58	10.72	
Module Efficiency (%)	18.6	19.1	
Operating Temperature	-40 °C t	o 85 °C	
Maximum System Voltage	1000 V [DC (IEC)	
Maximum Series Fuse Rating	20	A	
Application Class	Clas	ss A	
Power Tolerance	0/+	5 W	
STC: Irradiance 1000W/m², Cell temperature 25 C, AM=		P , V and I are within ±5%	

NMOT	SMF210F-4X18UW	SMF215F-4X18UW
Maximum Power (P _{max})	158.8	162.6
Maximum Power Voltage (V _{mp})	19.2	19.4
Maximum Power Current (I _{mp})	8.28	8.39
Open-circuit Voltage (V _{oc})	23.2	23.4
Short-circuit Current (I _{sc})	8.57	8.68
NMOT: Irradiance 800W/m 2 , Ambient temperature 200	C,AM=1.5, Wind speed 1 m/s.	

MECHANICAL CHARACTERISTICS

Monocrystalline silicon(166mm half cell) No. of Cells 72 (4×18) **Module Dimensions** 1610×700×2 mm Weight 3.8kg **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**

	20' GP	40' HC
Module per pallet	66+50	66
Pieces per container	972	2574



eArc **SMF285F-4X24UW**

285 Watt

96 Half Cell Monocystalline Module





Ultra-light: Glass free module weighs 4.9 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 280~285 W

POWER TOLERANCE

0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty







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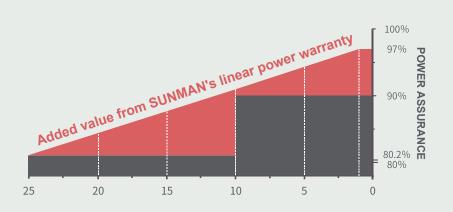


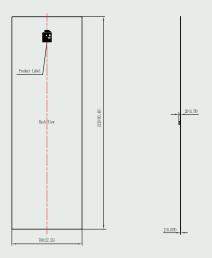




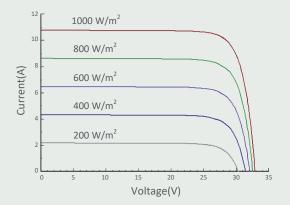








I-V CURVE (285)



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 %/℃



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.

SMFUW



ELECTRICAL CHARACTERISTICS

STC	SMF280F-4X24UW	SMF285F-4X24UW
Maximum Power (P _{max})	280	285
Maximum Power Voltage (V _{mp})	27.5	27.7
Maximum Power Current (I _{mp})	10.19	10.29
Open-circuit Voltage (V _{oc})	32.7	32.9
Short-circuit Current (I _{sc})	10.68	10.78
Module Efficiency (%)	18.9	19.2
Operating Temperature	-40 °C t	o 85 °C
Maximum System Voltage	1000 V I	OC (IEC)
Maximum Series Fuse Rating	20	A
Application Class	Clas	ss A
Power Tolerance	0/+	5 W
STC: Irradiance 1000W/m², Cell temperature 25 C, AM=	1.5. Tolerances of	P , V and I are within ±5%

NMOT	SMF280F-4X24UW	SMF285F-4X24UW
Maximum Power (P _{max})	211.7	215.5
Maximum Power Voltage (V _{mp})	25.4	25.6
Maximum Power Current (I _{mp})	8.34	8.42
Open-circuit Voltage (V _{oc})	30.7	30.9
Short-circuit Current (I _{sc})	8.64	8.72
NMOT: Irradiance 800W/m 2 . Ambient temperature 20 C	C.AM=1.5. Wind speed 1 m/s.	

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon(166mm half cell)	
No. of Cells	96 (4×24)	
Module Dimensions	2120×700×2 mm	
Weight	4.9kg	
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	

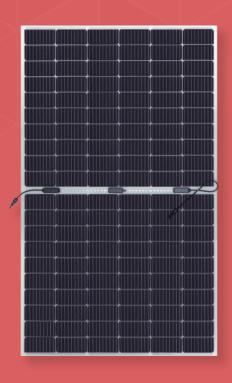
	20' GP	40' HC
Module per pallet	66+50	66
Pieces per container	810	1980



eArc **SMF360F-6X20UW**

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







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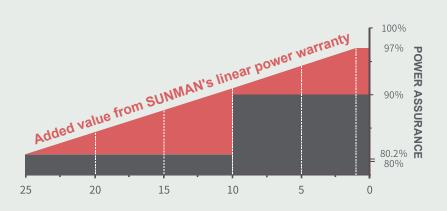


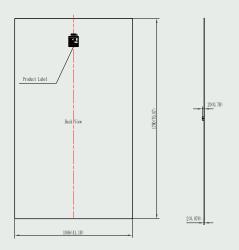




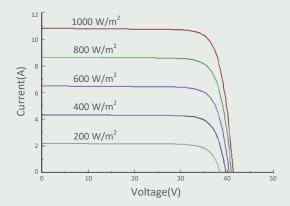








I-V CURVE (360)



TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature(NOMT)	41±2 °C
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.

SMFUW AU 2021A



ELECTRICAL CHARACTERISTICS

STC	SMF355F-6X20UW	SMF360F-6X20UW
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 t	o 85 °C
Maximum System Voltage	1000 V I	OC (IEC)
Maximum Series Fuse Rating	20	A
Application Class	Clas	es A
Power Tolerance	0/+5 W	

NMOT	SMF355F-6X20UW	SMF360F-6X20UW
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 C	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 DAVINING		

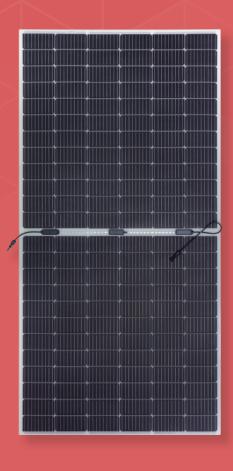
	20' GP	40' HC
lodule per pallet	66+50	66
Pieces per container	696	1584



eArc **SMF430F-6X24UW**

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









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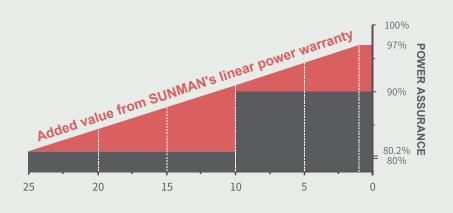


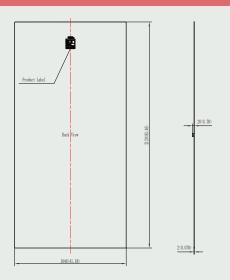




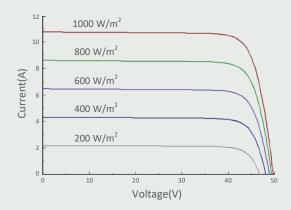








I-V CURVE (430)



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.

SMFUW IEC AU 2021A



ELECTRICAL CHARACTERISTICS

STC	SMF425F-6X24UW	SMF430F-6X24UW	
Maximum Power (P _{max})	425	430	
Maximum Power Voltage (V	_{mp}) 41.8	42.0	
Maximum Power Current (I _m	_{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 Ratin	ng 20) A	
Application Class	Cla	ss A	
Power Tolerance	0/+	5 W	
STC: Irradiance 1000W/m², Cell temperature 2		f P , V and I are within ±5%	

NMOT	SMF425F-6X24UW	SMF430F-6X24UW
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 C	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	

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



eArc SMF440F-6X24UW

440 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 435~440 W

POWER TOLERANCE

0-5 W

MADE IN CHINA

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty

25 Year Linear Power Warranty







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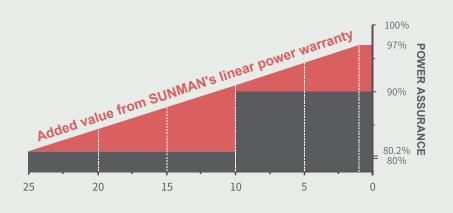


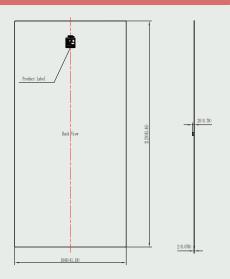




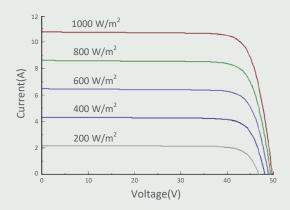








I-V CURVE (430)



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.

SMFUW



ELECTRICAL CHARACTERISTICS

STC	SMF435F-6X24UW	SMF440F-6X24UW	
Maximum Power (P _{max})	435	440	
Maximum Power Voltage (V _{mp})	42.2	42.4	
Maximum Power Current (I _{mp})	10.31	10.38	
Open-circuit Voltage (V _{oc})	50.0	50.2	
Short-circuit Current (I _{sc})	10.81	10.88	
Module Efficiency (%)	19.6	19.8	
Operating Temperature	-40 °C to	o 85 °C	
Maximum System Voltage	1000 V E	OC (IEC)	
Maximum Series Fuse Rating	20	A	
Application Class	Clas	ss A	
Power Tolerance	0/+5	5 W	
	.5. Tolerances of	P, V_ and I_ are within ±5%	

NMOT	SMF435F-6X24UW	SMF440F-6X24UW
Maximum Power (P _{max})	328.9	332.7
Maximum Power Voltage (V _{mp})	39.0	39.1
Maximum Power Current (I _{mp})	8.44	8.51
Open-circuit Voltage (V _{oc})	47.0	47.1
Short-circuit Current (I _{sc})	8.75	8.82
NMOT: Irradiance 800W/m 2 . 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 (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	

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