

12 v Boating, Caravan
and Camping Applications

High efficiency
Ultra-light
Super-thin
Flexible



5 Year Warranty

Maximum Power Voltage (V_{mp})

Electrical Characteristics

STC	SMF430F-12X12UW	SMF215F-4X18UW	SMF190F-4X16UW	SMF175M-4X09UW	SMF100F-3X12UW
Maximum Power (P_{max})	430	215	190	175	100
Maximum Power Voltage (V_{mp})	42	21.0	18.6	19.5	21.2
Maximum Power Current (I_{mp})	10.24	10.24	10.22	8.98	4.75
Open-circuit Voltage (V_{oc})	49.8	24.9	22.1	23.9	25.2
Short-circuit Current (I_{sc})	10.74	10.72	10.72	9.50	5.12
Module Efficiency (%)	19.2	19.1	19.1	17.3	15.7
Operating Temperature ($^{\circ}C$)	-40 $^{\circ}C$ to 85 $^{\circ}C$				
Maximum System Voltage	1000 V DC (IEC)		600 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 $^{\circ}C$, AM=1.5.

Mechanical Characteristics

Product	SMF430F-12X12UW	SMF215F-4X18UW	SMF190F-4X16UW	SMF175M-4X09UW	SMF100F-3X12UW
Frame	Frameless	Frameless	Frameless	Frameless	Frameless
Solar Cell	Mono (166 mm half cell)	Mono (166mm half cells)	Mono (166mm half cells)	Mono (6 inches)	Mono (166mm half cells)
No. of Cells	144 (12x12)	72 (4x18)	64 (4x16)	36 (4x09)	36 (3x12)
Module Dimensions	2054x1093x2 mm	1610x700x2 mm	1438x710x2 mm	1504x673x2 mm	1093x582x2 mm
Weight	7.3 kgs	3.8 kgs	3.25 kgs	3.0 kgs	2.1 kgs
Backsheet	White				
J-box	IP 68 rated (each j-box have one bypass diodes)				
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)150 / (-)450 mm				
Connector	MC4 compatible				



SUMAN



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SOLAR SPECIALIST

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