

# SUNMAN

Lightweight Solar Pioneer

## Sunman's eArc series flexible solar panels are a game changer!

*eArc is the world's first glassless solar module. An innovation combining proven crystalline silicon solar cells with Sunman's patented composite material, eArc has the same durability and robustness of conventional glass modules.*

*Unlike glass: eArc is akin to a flexible 'solar skin', 70% lighter and up to 95% thinner. eArc requires 0 penetration or mounting equipment during installation, cutting time-on-site by 40%.*

- Lightweight & durable.
- Ultra slim profile - just 2mm thick.
- Highly efficient Mono-Perc cells for optimum performance.
- Flexible and suitable for use on a variety of different surfaces.
- MC4 connector system to daisy chain multiple panels together.



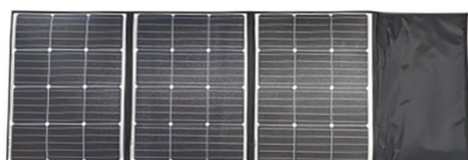


## Sunman panel range specifications

	SMF100F-3X12UW	SMF175M-4X09UW	SMF215F-4X18UW	SMF430F-12X12DW
Maximum Power ( $P_{max}$ )	100	175	215	430
Maximum Power Voltage ( $V_{mp}$ )	21.2	19.5	21.0	42.0
Maximum Power Current ( $I_{mp}$ )	4.75	8.98	10.24	10.24
Open Circuit Voltage ( $V_{oc}$ )	25.2	23.9	24.9	49.8
Short circuit Current ( $I_{sc}$ )	5.12	9.50	10.72	10.74
Module Efficiency (%)	15.7	17.3	19.1	19.2
Number of eyelets	No	6	No	
Operating Temperature	-40 °C to 85 °C			
Maximum System Voltage	600VDC (IEC)		1000VDC (IEC)	
J-box	IP68 rated			
Connector	MC4 compatible			
Maximum Series Fuse Rating	20A			
Application Class	Class A			
Power Tolerance	0/+5W			
Number of cells	36 (3 x 12)	36 (4 x 9)	72 (4 x 18)	144 (12 x 12)
Dimensions	1093 x 552 x 2mm	1504 x 673 x 2mm	1610 x 700 x 2mm	2054 x 1093 x 2mm
Weight	2.1kg	3.0kg	3.8kg	7.3kg

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5

## Sunman portable solar charger specifications



Dimensions  
 Folded: 670 x 540 x 24mm  
 Unfolded: 670 x 2600 x 5mm

Weight 6.7kg

	Portable SMF235M-12
Maximum Power ( $P_{max}$ )	235
Maximum Power Voltage ( $V_{mp}$ )	26.1
Maximum Power Current ( $I_{mp}$ )	9.01
Open Circuit Voltage ( $V_{oc}$ )	31.7
Short circuit Current ( $I_{sc}$ )	9.54
Operating Temperature	-40 °C to 85 °C
Maximum System Voltage	600VDC (IEC)
Connector	Anderson Plugs
Number of cells	48

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5