

Solawatt Semi Flexible Solar Modules

12 Volt



The Solawatt range of high efficient, semi flexible, waterproof monocrystalline solar panels is perfect for permanent outdoor use to provide free electricity for charging 12V batteries to power various applications, such as in a motorhomes, caravans, campers, boats, or for solar lighting systems, off-grid / back up solar power systems.

The semi flexible design makes them ideal for curved roofs and surfaces where bonding is preferable or though the stainless steel panel eyelets using bolts or screws.

Waterproof junction box on the front of panel and is fitted with a blocking diode to prevent reverse current from the battery to the solar panel. The panels are fitted with 2 x 0.9m of cable fitted with MC4 compatible connectors and are specially designed for solar panels to carry high currents with negligible power loss.



Features:

- No glass or frame, thin and is incredibly light weight
- High resistance to salt water environment and possibility to walk on the panel make it perfect for boats and yachts
- Long life ETFE coating (Ethylene-Tetra-Fluoro-Ethylene)

Why ETFE:

- Dirt resistance, self-cleaning & less maintenance
- Light transmittance up to 93% for high efficiency
- Just 3mm thickness 1/10 weight of glass solar panel
- UV resistant for longer life

Model	SW-FLEX-20W	SW-FLEX-50W	SW-FLEX-105W
Nominal Peak Power (W)	20	50	105
Module Size L x W (mm)	490 x 310 x 3	580 x 560 x 3	560 x 1070 x 3
Power Output Tolerance Pmax (%)	±3%		
Max. Power Voltage Vmp (V)	17.6		
Max. Power Current Imp (A)	1.14	2.84	5.97
Open Circuit Voltage Voc (V)	21.8		21.1
Short Circuit Current Isc (A)	1.23	3.07	6.44
Operating Temperature (°C)	-40 ~ +85		
Maximum System Voltage (VDC)	600		
Net Weight (Kg)	0.6	1.15	2.5
Diode	1 bypass diode		2 bypass diodes
Connection	2 x 0.9m cables with MC4 connectors; to IP65 junction box		
Accessories	Solawatt cables: 1m, 4m, 12m fitted with male & female connectors		
Warranty	Workmanship and materials: 5 years Power output: At least 90% after 10 years and more than 80% after 25 years		

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