

# 530W MCS certified semi-flexible solar panel

# Photonic Universe

## Product features

**Semi-flexible solar panels** allow installation on curved surfaces and uniquely designed roof structures.

**Application with adhesive** enables easy and safe installation without penetrating the waterproofing layer.

**80% lighter** on the roof compared to standard rigid frame solar panels as these panels don't need mounting hardware.

**MCS certification** ensures the panel meets strict UK quality and safety standards, offering trusted performance and durability.

**PERC and half-cut cell technology**, achieves superior energy conversion efficiency, ensuring maximum power generation in a compact and lightweight form.

**Superior performance in low-light conditions**, ensuring efficient energy generation even during cloudy days, early mornings, or late afternoons.

**Minimises shading impact** to reduce power loss, providing a more stable energy production even when parts of the panel are shaded.

The superior reliability has been proven throughout **rigorous weathering tests:**

- Sand and dust resistance
- Acid and alkali-resistance
- Salt mist resistance
- Anti-PID
- Hail shock resistance

## Factory quality system



## Product warranty

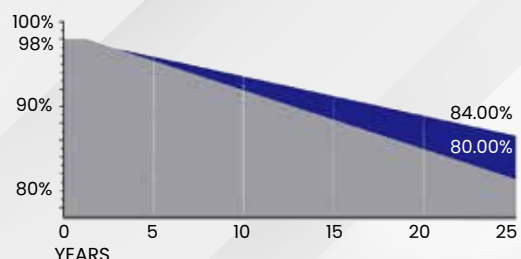
Workmanship warranty

**5-year** for vehicle/boat installations

**10-year** for permanent roof installations

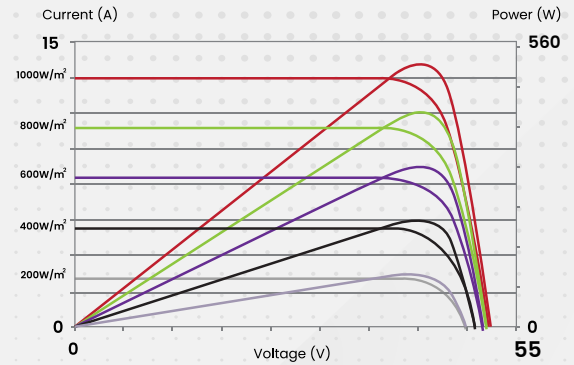
Linear power output

performance guarantee **25 years**



## Electrical specifications

Model	FMCS-530M
Peak power (Pmp)	530W
Maximum power voltage (Vmp)	41.35V
Maximum power current (Imp)	12.83A
Open circuit voltage (Voc)	49.90V
Short circuit current (Isc)	13.76A
Power tolerance	0-5W
Maximum system voltage	1500VDC
Maximum series fuse rating	25A



Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>, 1.5 air mass, cell temperature 25°C

## Temperature specifications

Model	FMCS-530M
Pmax temperature coefficient	-0.35%/°C
Voc temperature coefficient	-0.26%/°C
Isc temperature coefficient	+0.047%/°C
Operating temperature	From -40°C to +85°C
Nominals module operation temperature	45 ± 2°C

## Mechanical specifications

Model	FMCS-530M
External dimensions	2312 x 1137mm
Thickness	3.4mm
Weight	10.5kg
Solar cells	Monocrystalline (182 x 91mm)
Junction box	IP68 with 3 diodes
Output cables	2 x 0.3m of 4.0mm <sup>2</sup> solar cable with MC4-compatible connectors

