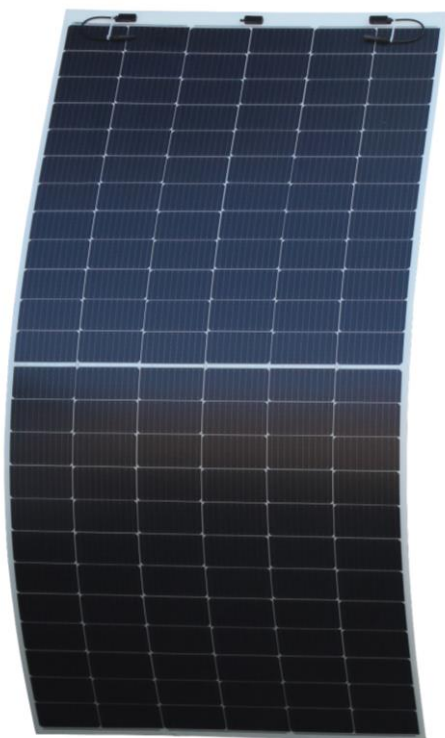


530W MCS certified semi-flexible solar panel with top junction box

Datasheet



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 meet 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 test**:
 - Sand and dust resistance
 - Acid and alkali-resistance
 - Salt mist resistance
 - Anti-PID
 - Hail shock resistance

Factory quality system

- ISO9001
- ISO14001
- ISO45001

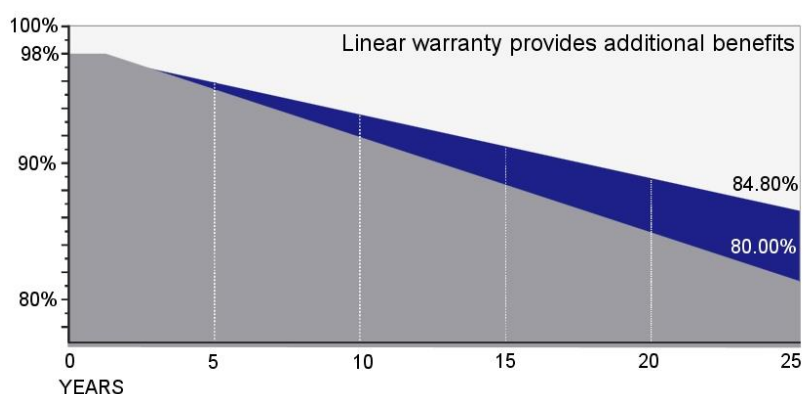
Product warranty

Workmanship warranty

- 5-year for vehicle/boat installations
- 10-year for permanent roof installations

Linear power output performance guarantee

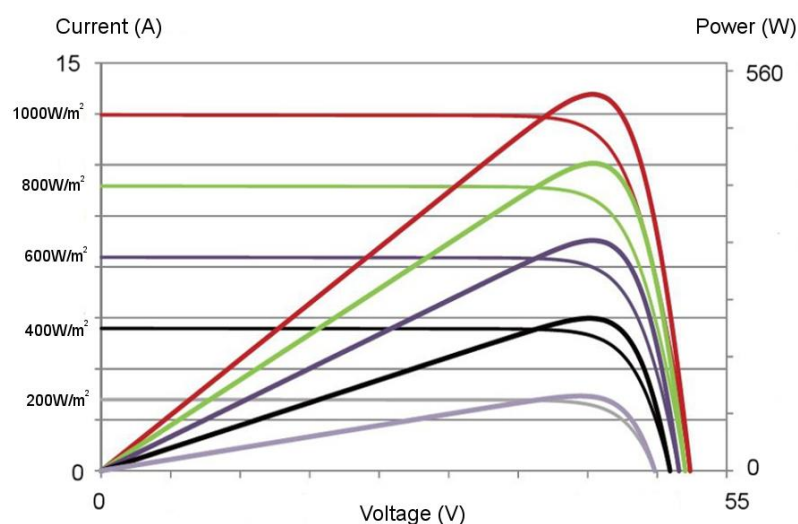
- 25 years



Electrical parameters

Model	FMCS-530M
Peak power (P_{mp})	530W
Maximum power voltage (V_{mp})	41.35V
Maximum power current (I_{mp})	12.83A
Open circuit voltage (V_{oc})	49.90V
Short circuit current (I_{sc})	13.76A
Power tolerance	0~5W
Maximum system voltage	1500VDC
Maximum series fuse rating	25A

Standard Test Conditions (STC): irradiance $1,000 \text{ W/m}^2$, 1.5 air mass, cell temperature 25°C .



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Mechanical specifications

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 ² solar cable with MC4-compatible connectors

Temperature characteristic

P _{max} temperature coefficient	-0.35%/°C
V _{oc} temperature coefficient	-0.26%/°C
I _{sc} temperature coefficient	+0.047%/°C
Operating temperature	From -40°C to +85°C
Nominals module operation temperature	45 ± 2°C

Technical drawing



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