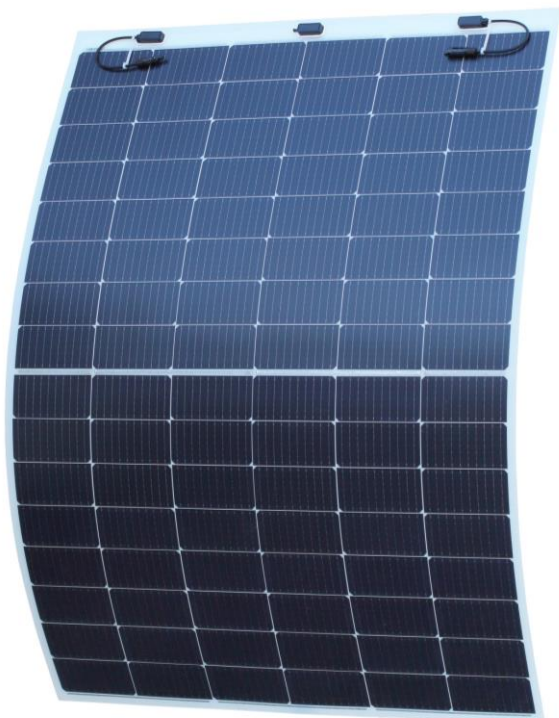


350W MCS certified semi-flexible solar panel with top junction box

Datasheet



- **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

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.

Factory quality system

- ISO9001
- ISO14001
- ISO45001

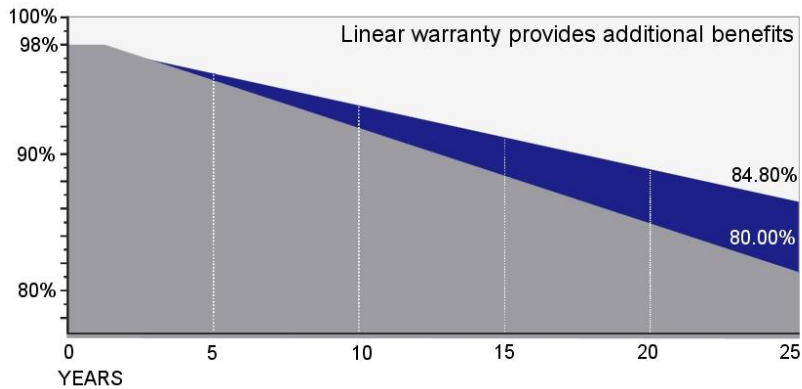
Product warranty

Workmanship warranty

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

Linear power output performance guarantee

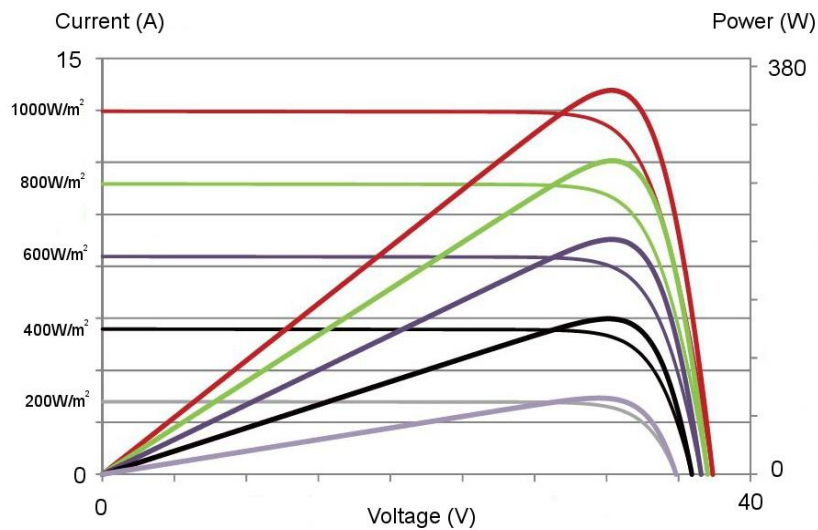
- 25 years



Electrical parameters

Model	FMCS-350M
Peak power (P_{mp})	350W
Maximum power voltage (V_{mp})	27.47V
Maximum power current (I_{mp})	12.75A
Open circuit voltage (V_{oc})	33.17V
Short circuit current (I_{sc})	13.70A
Power tolerance	0-5W
Maximum system voltage	1500VDC
Maximum series fuse rating	25A

Standard Test Conditions (STC): irradiance 1,000 W/m², 1.5 air mass, cell temperature 25°C.



Photonic Universe Ltd
VAT: GB 124 6724 21

Company number: 7722726

Registered in England and Wales

Registered office:
 TMS House
 Cray Avenue
 Orpington BR5 3QB UK

Tel: +44 (0) 203 150 11 11
 Fax: +44 (0) 203 150 12 12
 Email: info@photonicuniverse.com
 Webstore: www.photonicuniverse.com

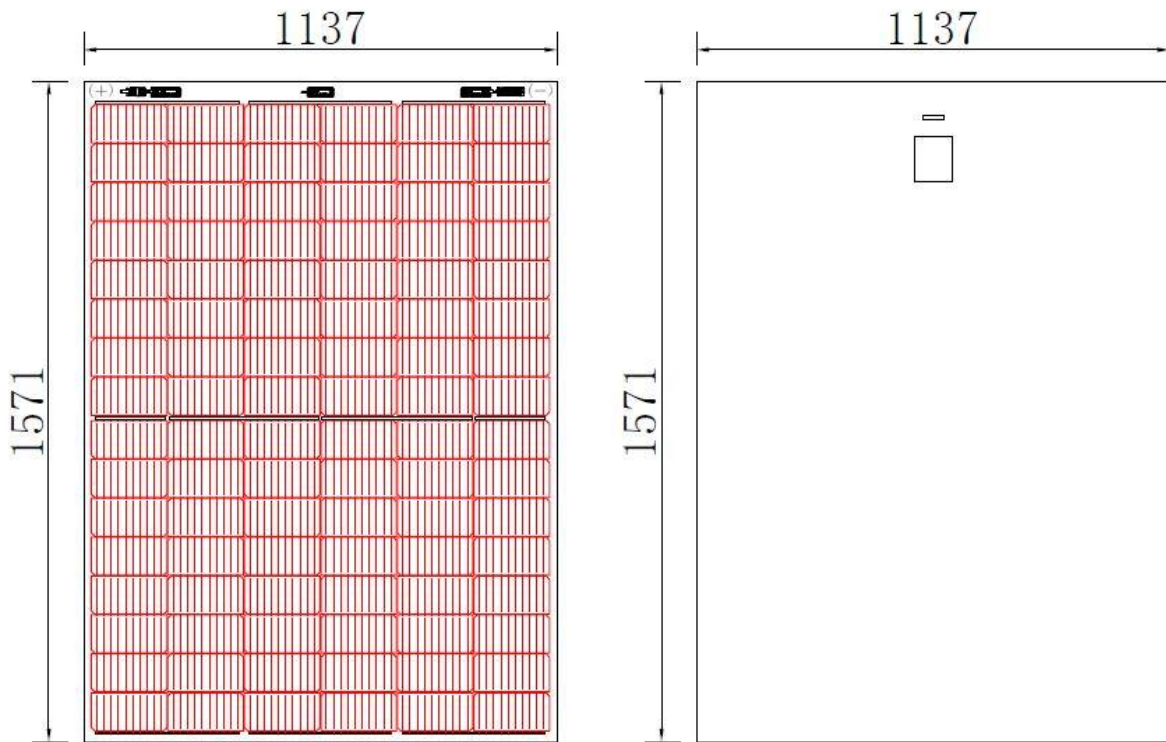
Mechanical specifications

External dimensions	1571 x 1137mm
Thickness	3.4mm
Weight	7.4kg
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



Photonic Universe Ltd
VAT: GB 124 6724 21

Company number: 7722726

Registered in England and Wales

Registered office:
TMS House
Cray Avenue
Orpington BR5 3QB UK

Tel: +44 (0) 203 150 11 11
Fax: +44 (0) 203 150 12 12
Email: info@photonicuniverse.com
Webstore: www.photonicuniverse.com