# 210W MCS black 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
  - o 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

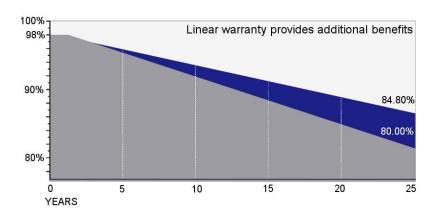
Company number: 7722726

Photonic Universe Ltd VAT: GB 124 6724 21

Registered office: TMS House Cray Avenue Orpington BR5 3QB UK Registered in England and Wales

Tel: +44 (0) 203 150 11 11 Fax: +44 (0) 203 150 12 12

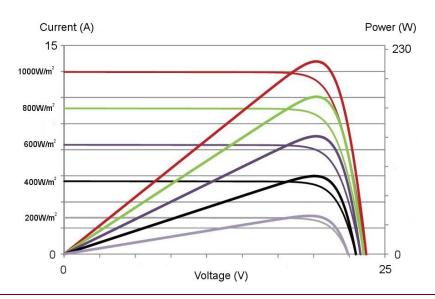
Email: <a href="mailto:info@photonicuniverse.com">info@photonicuniverse.com</a>
Webstore: <a href="mailto:www.photonicuniverse.com">www.photonicuniverse.com</a>



## **Electrical parameters**

Model	FMCS-210M
Peak power (Pmp)	210W
Maximum power voltage (V <sub>mp</sub> )	16.52V
Maximum power current (Imp)	12.14A
Open circuit voltage (Voc)	20.08V
Short circuit current (Isc)	13.12A
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

Email: <a href="mailto:info@photonicuniverse.com">info@photonicuniverse.com</a>
Webstore: <a href="mailto:www.photonicuniverse.com">www.photonicuniverse.com</a>

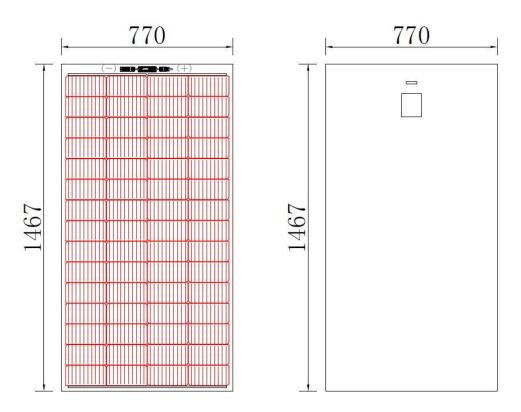
## **Mechanical specifications**

External dimensions	1467 x 770mm
Thickness	3.4mm
Weight	4.6kg
Solar cells	Monocrystalline (182 x 91mm)
Junction box	IP68 with 3 diodes
Output cables	2 x 0.5m of 4.0mm <sup>2</sup> solar cable with MC4- compatible connectors

## **Temperature characteristic**

P <sub>max</sub> temperature coefficient	-0.35%/°C
V <sub>oc</sub> temperature coefficient	-0.26%/°C
I <sub>sc</sub> 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

Registered office:

Company number: 7722726

Registered in England and Wales

Tel: +44 (0) 203 150 11 11 Fax: +44 (0) 203 150 12 12

TMS House Cray Avenue Email: info@photonicuniverse.com Orpington BR5 3QB UK Webstore: www.photonicuniverse.com