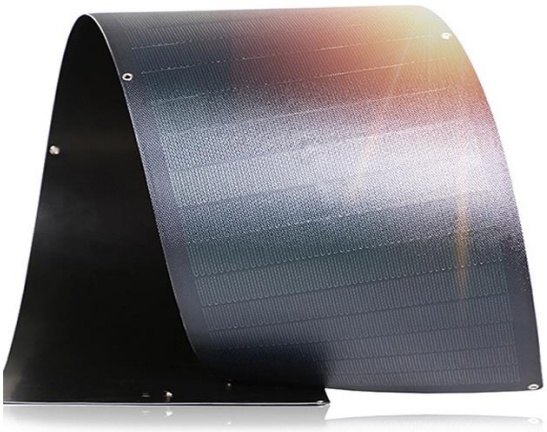
PS-CIGS-MS Series Flex Panels

STC Product Specifications for thin-film CIGS solar PV modules



Polysolar's PS-CIGS-MS series lightweight flexible stick-on panels offer the versatility for a wide range of BIPV applications

- Light weight 2.4kg/m^2
- High performance thin-film CIGS PV technology
- Ease of installation with sticky back plastic or eyelets pre-applied
- Works in low and ambient light conditions
- Conforms to curved surfaces
- Highly flexible and shatterproof
- Bespoke sizes available
- Reliable and waterproof

Polysolar

Physical Specifications PS-CIGS-MS Series

Active Material of Cell		Copper Indium Gallium Selenide CIGS Technology	
Back Cover		Plastic	
Wiring Material		Tin & silver coated copper ribbon thickness 0.1 mm	
Junction Box	Bypass diode	Yes	
	IP Class	IP 68	
Cable length		Upwards 700 mm(+), 700 mm (-)	
Connecting Cable Plug		Rated voltage 1000 V D.C. Plug/Socket MC4 compatible Ø 4mm Cable cross section: 2.5 mm^2	
Fabrication		Frameless / Glassless	
Dimensions		Width (mm)	Length (mm)
	Flex 85	348 ± 1	1710 ± 1
	Flex 130	348 ± 1	2585 ± 1
	Flex 285	348± 2	5905 ± 5
	Flex 310	1293 ± 1	2585 ± 1
Weight		2Kg/m2	
Bend Radius		508 mm	

Electrical Specifications PS-CIGS-MS Series

Polysolar Model	Class	Stabilized Performance STC				
		Watts	V_{mpp} (V)	I_{mpp} (A)	V_{oc} (V)	I_{sc} (A)
		Electrical tolerance +5/-0%				
Flex 85	85 W	86	20.9	4.07	25.5	4.47
Flex 130	130W	130	32.1	4.06	39.4	4.49
Flex 285	285W	285	67.9	4.26	85.8	4.74
Flex 310	310W	310	76.3	4.07	93.3	4.48
Max over current rating	10A					
Temperature Coefficient	I_{sc} +0.008%/K V_{oc} –0.28%/K P_{mpp} –0.38%/K NOCT 48 °C					
Max System Voltage	1000 V dc (IEC) 1000 V dc (UL)					

Warranty on Product (Workmanship & Materials)	Warranty on Performance (Power Grade Output)
5 years from date of shipment	25 Year performance. 90% of power grade output of the module for a 10 year period and then 80% of the power grade output of the module for a 25 year period from date of shipment
Certifications	IEC EN61646 & 61730 and 62716 CE Mark MCS Class A TPO

The units electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow or water can increase current and power output. Therefore, the values of Isc and Voc marked on the units should be multiplied by a factor of 1.25 when determining component voltage ratings, conductor capacities, fuse sizes, and size of controls connected to PV output. [STC]: 1000 W/m^2 , AM 1.5, 25 .The exactly measured electrical characteristics are shown on the label of the units.

Polysolar

polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@polysolar.co.uk

World leaders in the design, development and project management of Building Integrated Photovoltaic solutions

Cambridge Office
Polysolar Limited
Aurora BAS
High Cross, Madingley Rd
Cambridge CB3 0ET
UK

London Office
Polysolar Limited
One Canada Square
Canary Wharf
London E14 5AB
UK