



Polysolar



PS-CIGS-MS Series Flexible 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 adhesive backing or eyelets pre-applied
- Works in low and ambient light conditions
- Conforms to curved surfaces
- Highly flexible and shatterproof
- Bespoke sizes available
- Durable and waterproof





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Physical Specifications PS-CIGS-MS Series

Active Material of Cell		Copper Indium Gallium Selenide CIGS Technology
Back & Front 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 Thickness 1.0 mm	Width	348mm +1/-1 mm
	Length	1710mm +1/-1 mm
	Width	348mm +1/-1 mm
	Length	2585mm+1/-1 mm
	Width	1293mm +1/-1 mm
	Length	2585 mm +1/-1 mm
	Width	348mm +1/-1 mm
	Length	5905mm +5/-5mm
Weight		2Kg/m2
Bend Radius		508mm

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					
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, with option for extension to 10 years	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 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 I_{sc} and V_{oc} 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/m², AM 1.5, 25 °C. The exactly measured electrical characteristics are shown on the label of the units.



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