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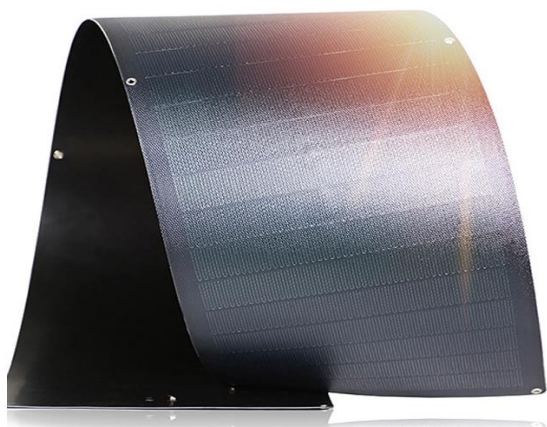
PS-CIGS-MS Series Flex Panels

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/m²
- High performance thin-film CIGS PV technology
- Ease of installation with sticky back plastic pre-applied
- Works in low and ambient light conditions
- Conforms to curved surfaces
- Highly flexible and shatterproof
- Bespoke sizes available
- Reliable and waterproof





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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	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
Weight		2Kg/m ²
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 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	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 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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