



Polysolar



PS-CIGS-HM Series panels

STC Product Specifications for CIGS thin-film opaque flexible BIPV units



Polysolar's PS-CIGS-HM series opaque flexible panels offer light weight versatility for a wide range of applications.

Lightweight – less than 2.4kg/m²

Powerful – Highest power density CIGS technology

Easy to install with sticky back plastic

Works at low ambient light levels

Flexible and shatterproof – conforming to curved surfaces

Bespoke sizing available

Reliable and waterproof



Physical Specifications PS-CIGS-HM Series

Active Material of Cell		Copper Indium Gallium Selenide CIGS Technology
Substrate Material		Stainless Steel
Wiring Material		Tin & silver coated copper ribbon
Junction Box		IP 68
Cable length		700 mm (+) 700 mm (-) junction box
Connecting Cable Plug		Rated voltage 1000 Volts D.C. Temperature range: -40 to 85°C Plug/Socket MC4 compatible Ø 4mm
Dimensions Narrow Short	Width	348 mm +1/-1 mm
	Length	1710 mm +1/-1 mm
Dimensions Narrow Med	Width	348mm
	Length	2585mm
Dimensions Narrow Long	Width	348mm
	Length	5910mm
Dimensions Wide Mid	Width	1000mm
	Length	2580mm
Thickness		2.5mm
Weight		1.8 kg/m ² (2.2 kg/m ² with adhesive)
Bespoke and customised solutions are available for different applications		

Electrical Specifications PS-CIGS-HM Series

Model	Class	Stabilized Performance STC			
		V_{mpp} (V)	I_{mpp} (A)	V_{oc} (V)	I_{sc} (A)
		Electrical tolerance +5/-0%			
PS-CIGS-HM 80	80 W	19.3	4.15	24.0	4.70
PS-CIGS-HM 120	120 W	29.5	3.93	37.1	4.70
PS-CIGS-HM 300	300 W	71.3	4.21	88.4	4.70
PS-CIGS-HM 350	350 W	29.2	12.00	36.9	14.10
PS-CIGS-HM 390	390 W	30.5	12.78	37.7	14.10
Max over current rating	10A				
Temperature Co-efficient	$I_{sc} + 0.08\%/K$ $V_{oc} - 0.28\%/K$ $P_{mpp} - 0.38\%/K$				
Max System Voltage	1000 V				

The units electrical ratings are measured under Standard Test Conditions (STC) 1000W/m² at 25° C cell temperature AM1.5 spectrum 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.



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Warranty

Warranty on Product (Workmanship & Materials)	Warranty on Performance (Power Grade Output)
5 years from date of shipment	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 Pending





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www.polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@polysolar.co.uk



World leaders in the design, development, manufacture and management of architectural and 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