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Solar Panel Guide Specification Data Sheet

**Polysolar Limited
PS-C Series
PS-C-901**

Also available on the web at
EnergyPal.com/polysolar-limited-solar-panels/ps-c-901



Polysolar

PS-C Series transparent panels

STC Product Specifications for thin-film glass/glass laminate BIPV glazing units



Polysolar's PS-C glass panels incorporate amorphous silicon technology to achieve

Up to 66 Watts/m²

Attractive transparent amber-tinted laminate

Less affected by shading

Works down to ambient light levels

Less position sensitive

Single or double glazed panels available





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Physical Specifications PS-C Series

Active Material of Cell		Amorphous Silicon (α -Si), single junction
Encapsulation Material		Polyvinylbutyral (PVB) thickness 0.76mm
Front Cover		Float Glass, thickness: 3.2 mm
Back Cover		Float Glass, thickness: 3.2 mm
Wiring Material		Tin & silver coated copper ribbon thickness 0.1mm
Junction Box	Bypass diode	Yes
	IP Class	IP 67
Cable length		Upwards 800 mm(+), 600 mm (-)
Connecting Cable Plug		Rated voltage 1000 Volts D.C. Temperature range: -40 to 85°C Plug/Socket MC4 compatible \varnothing 4mm Cable cross section: 2.5mm ²
Transparency		20% +/- 3.5% average transmission at 400-800 nm
Frame		Frameless
Dimensions	Width	1100mm+2/-1mm
	Length	1300mm +2/-1mm
	Thickness	7.0 mm+2/-1mm
Weight		24 kg \pm 0.5 kg
The module is tested under 2400 Pa (50lb/ft ²) mechanical load or approximately to a wind speed of 130km/h (80 mph) with certified mounting solutions. Other mounting solutions for higher mechanical loads are also available and can be warranted by Polysolar		

Electrical Specifications PS-C Series

Polysolar Model	Class	Stabilized Performance STC				
		Transparency	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
PS-C-901	90W	20%	103	0.90	137	1.15
Max over current rating	2.0A					
Temperature Coefficient	I _{sc} +0.09%/K V _{oc} -0.34%/K P _{mpp} -0.20%/K					
Shading Coefficient	10% - 0.31, 20% 0.41					
Max System Voltage	1000Vdc (IEC) 600Vdc (UL)					

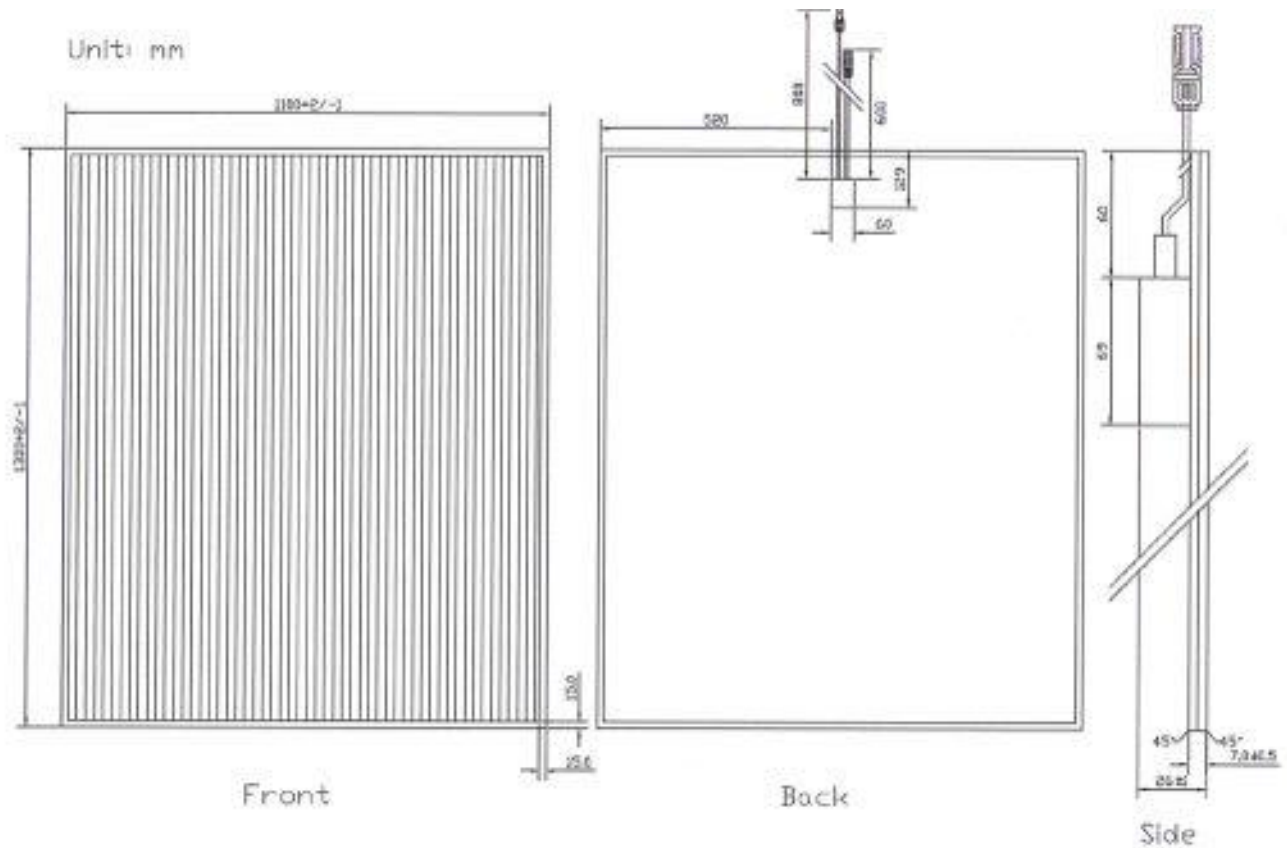
The units electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow or 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.



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 EN6164 & 61730-1 & 61730-2 CE Mark

Note: Modules must only be used in configurations where the negative polarity of the PV panel is connected to the ground. Failure to comply with this requirement will invalidate the warranty for the module





Polysolar

www.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
Hauser Forum
Charles Babbage Road
Cambridge CB3 0GT
UK

London Office

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