

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 giving good efficiency at a low cost

Up to 66 W/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







Physical Specifications PS-C Series

Active Material of Cell		Amorphous Silicon (a-Si), single junction
Encapsulation Material		Polyvinyl butyral (PVB) thickness 0.76 mm
Front Cover		Float Glass, thickness: 3.2 mm
Back Cover		Float Glass, thickness: 3.2 mm
Wiring Material		Tin & silver coated copper ribbon thickness 0.1
		mm
Junction	Bypass diode	Yes
Вох	IP Class	IP 67
Cable length		Upwards 800 mm(+), 600 mm (-)
Connecting Cable Plug		Rated voltage 1000 V D.C.
		Temperature range: -40 to 85°C
		Plug/Socket MC4 compatible Ø 4mm
		Cable cross section: 2.5 mm ²
Transparency		20% ±3.5% average transmission at 400-800 nm
Frame		Frameless
Dimensions	Width	1100 mm +2/-1 mm
	Length	1300 mm +2/-1 mm
	Thickness	7.0 mm +2/-1 mm
Weight		$24 \text{kg} \pm 0.5 \text{kg}$
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The module is tested under 2400 Pa (50 lb/ft²) mechanical load or approximately to a wind speed of 130 km/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

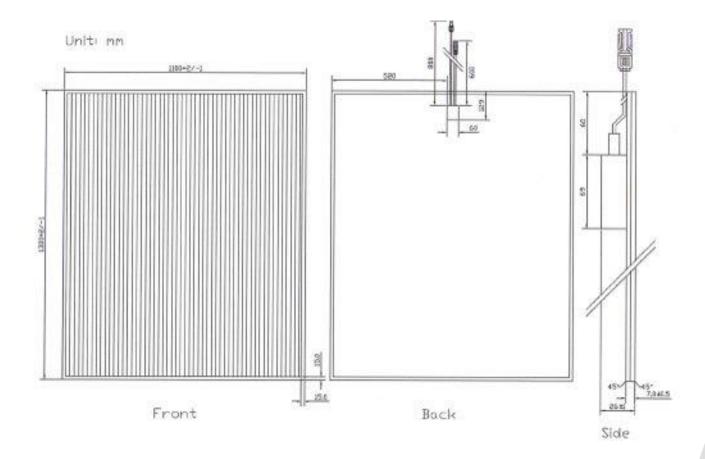
		Stabilized Performance STC				
Polysolar Model	Class	Transparency	V _{mpp} (V)	I _{mpp} (А)	V _{oc} (V)	I _{sc} (A)
			Electrical tole	erance +5	/-0%	
PS-C-901	90 W	20%	103	0.90	137	1.15
Max over current rating	2.0A					
Temperature Coefficient		I _{sc} +0.09%/K V _{oc} -0.34%/K P _{mpp} -0.20%/K				
Shading Coefficient	10% - 0.31, 20% 0.41					
Max System	1000 V dc (IEC)					
Voltage	600 V dc (UL)					



Warranty

Warranty on Product	Warranty on Performance			
(Workmanship & Materials)	(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 EN 61646 & 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.

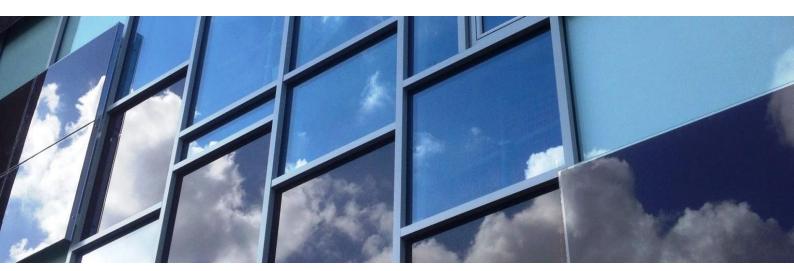




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