



Polysolar



PS-A Series opaque panels

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



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

Up to 70 Watts/m²

Natural chestnut colour for sensitive locations

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-A Series

Active Material of Cell		Amorphous Silicon (a-Si), single junction
Encapsulation Material		Polyvinylbutyral (PVB) thickness 0.76mm
Front Cover		Float Glass, thickness: 3.2 mm
Back Cover		Tempered 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 Ø 4mm Cable cross section: 2.5mm ²
Transparency		+/- 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
	+ junction box	26 +/- 1.0mm
Weight		24 kg ± 0.5 kg
<p>The module is tested under 2400 Pa (50lb/ft²) 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</p>		

Electrical Specifications PS-A Series

Polysolar Model	Class	Stabilized Performance STC			
		V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
PS-A-87A	100W	104	0.99	139	1.18
Max over current rating	2.0A				
Temperature Coefficient	I _{sc} +0.04%/K V _{oc} -0.34%/K P _{mpp} -0.22%/K V _{mpp} -0.31%/K				
Max over current rating	2.0A				
Max System Voltage	1000Vdc (IEC) 600Vdc (UL)				

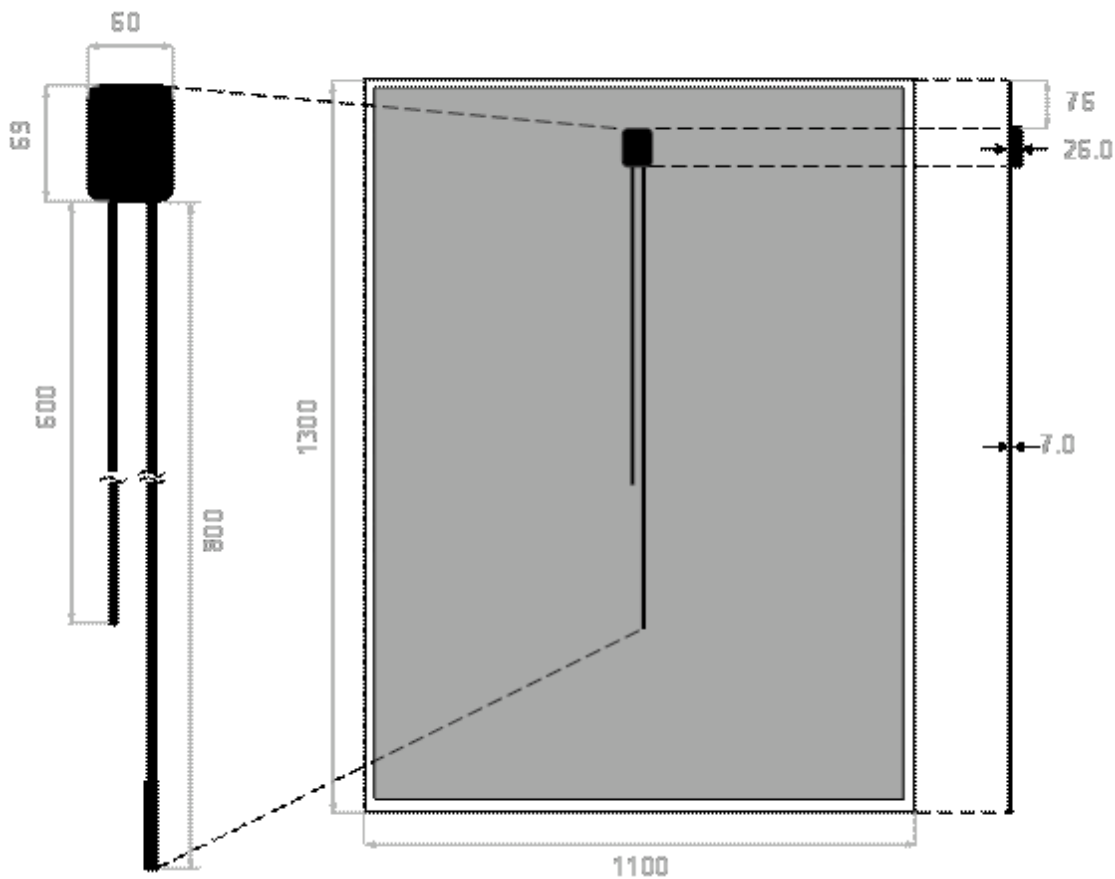
The units electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow or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



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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 EN6164 & 61730-1 & 61730-2 TüV- Rheinland MCS – NQA certified, CE Mark





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