



PS-ASG-Series panels

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



Polysolar's PS-ASG series opaque and transparent panels incorporate amorphous silicon technology to achieve high efficiencies and aesthetic design.

Up to 72 W/m²

Highly aesthetic dark brown finish

Transparencies up to 60% available

Works in ambient and low light levels

Less position sensitive application

Bespoke sizing available up to 3 x 2m

Range of colour options

Single or double glazed panels available



Physical Specifications PS-ASG Series

Active Material of Cell		Amorphous silicon cell (a-Si)
Encapsulation Material		Polyvinylbutyral (PVB) thickness 0.4 mm
Front Cover		Float Glass, thickness: 3.2 mm
Back Cover		Tempered Glass, thickness: 3.2 mm
Wiring Material		Tin & silver coated copper ribbon thickness 0.1 mm
Junction Box	Bypass diode	10 A
	IP Class	IP 65
Cable length		750 mm (+) 770 mm (-) side mounted junction box or back mounted mounted junction box
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		Variable 0-60%
Frame		Frameless
Dimensions	Width	1100 mm +2/-1 mm
	Length	1400 mm +2/-1 mm
	Thickness	6.8 mm
Weight		25.5 kg
The module is tested under 2400 Pa (50 lb/ft ²) 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.		

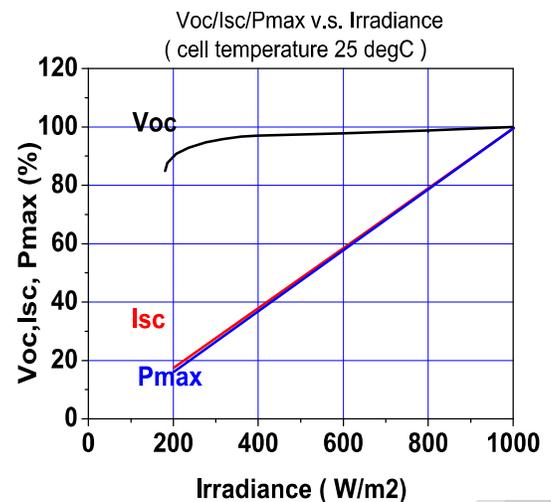
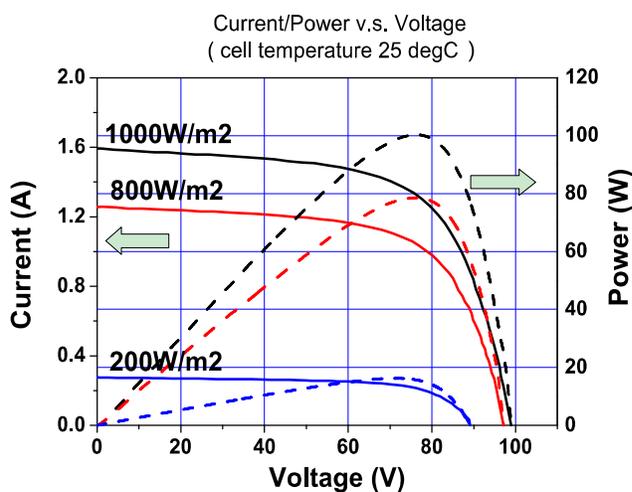
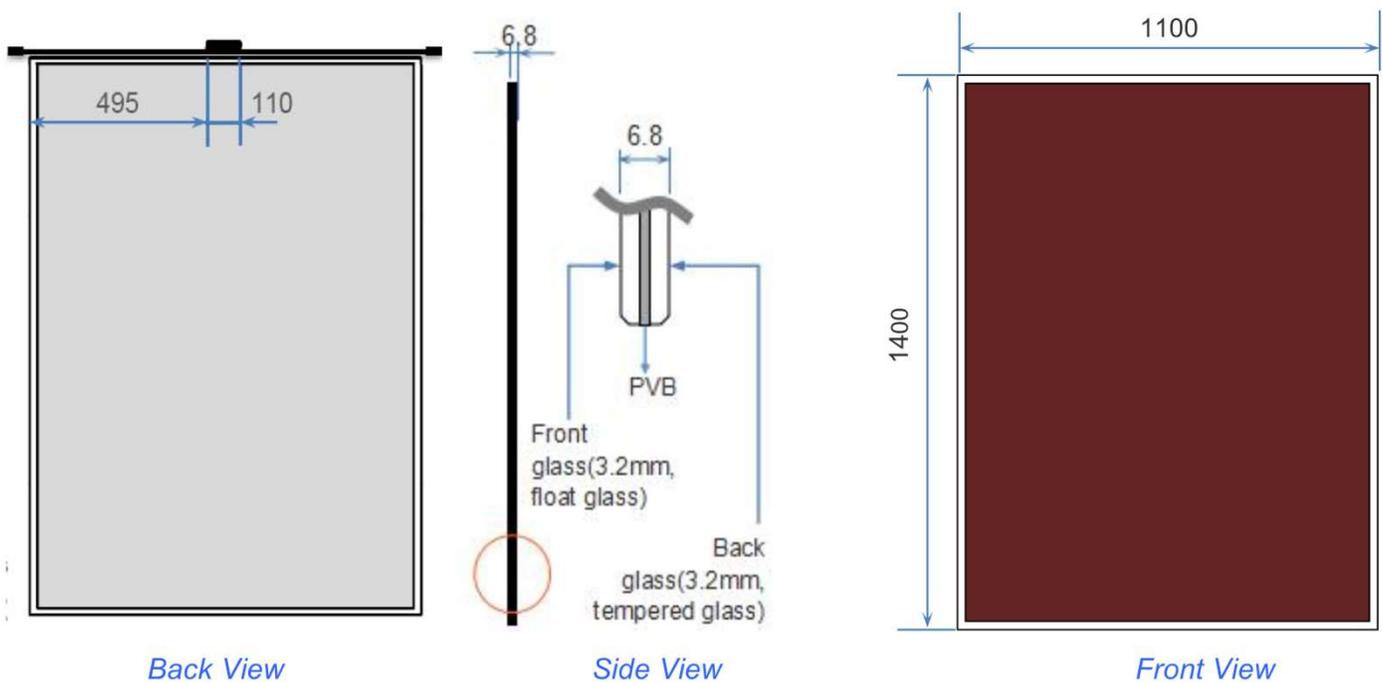
Electrical Specifications PS-AS- Series

Polysolar Model	Class	Stabilized Performance STC				
		Transparency	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
Electrical tolerance +5/-0%						
PS-ASG-110	110 W	Opaque	78	1.41	100	1.79
PS-ASG-100	100 W	10%	77	1.27	100	1.61
PS-ASG-90	90 W	20%	77	1.13	100	1.43
PS-ASG-78	78 W	30%	77	0.99	100	1.25
PS-ASG-67	67 W	40%	77	0.87	99	1.07
PS-ASG-53	53 W	50%	75	0.71	99	0.90
PS-ASG-42	42W	60%	75	0.56	99	0.71
Max over current rating	2.0 A					
Temperature Co-efficient	I _{sc} + 0.09%/K V _{oc} - 0.33%/K P _{mpp} - 0.20%/K					
Operating Temperature	-40°C to +85°C					
Max System Voltage	600 V					

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. 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)
10 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 & 61730-1 (TUV Sud) CE Mark



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