



Polysolar

PS-CT-Series Product Specifications Ver 11215

Polysolar Photovoltaic Glazing

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

PS-CT-Series Transparent modules

Polysolar Limited
Hauser Forum
Charles Babbage Road
Cambridge, UK
CB3 0GT

Tel: +44(0)1223 911534

Email: info@polysolar.co.uk

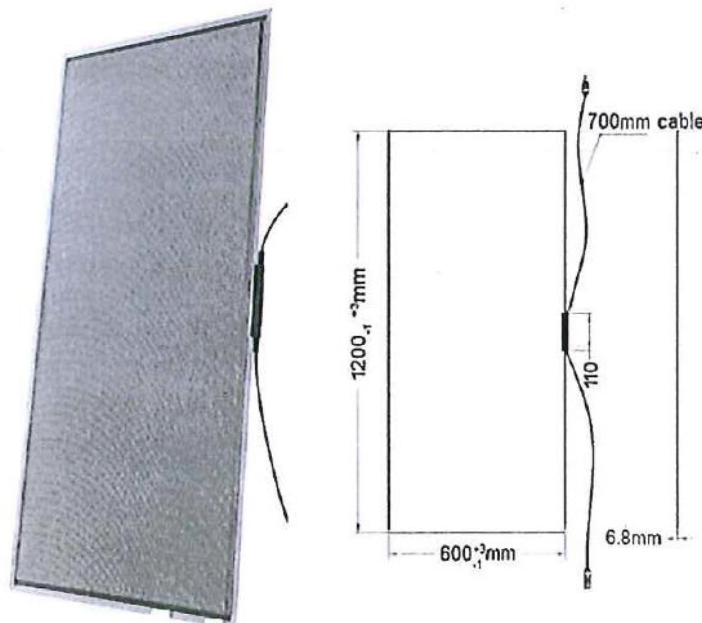
Web: www.polysolar.co.uk



Physical Specifications PS-CT-Series

Model Type		PS-CT Series transparent CdTe thin-film PV module
Active Material of Cell		Cadmium Telluride (CdTe)
Encapsulation Material		Polyvinylbutyral (EVA/PVB) thickness 0.76mm
Front Cover		Float Glass,thickness: 3.2 mm
Back Cover		Tempered Glass,thickness: 3.2 mm
Wiring Material		Tin & silver coated copper ribbon thickness 0.1mm
Junction Box	Bypass diode	10A
	IP Class	IP 65
Cable length		700mm (+) 700mm (-) side mounted junction box or 650mm (+) 650mm (-) back 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 0-40%
Frame		Frameless
Dimensions	Width	600mm+2/-1mm
	Length	1200mm +2/-1mm
	Thickness	6.8 mm+2/-1mm
Weight		11.8Kg
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		

Dimensions and Drawings





Electrical Specifications PS-CT-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-CT-72	72W	10%	87.0	0.82	116	0.88
PS-CT-64	64W	20%	87.0	0.73	116	0.78
PS-CT-56	56W	30%	87.0	0.64	116	0.68
PS-CT-48	48W	40%	87.0	0.55	116	0.59
PS-CT-40	40W	50%	87.0	0.46	116	0.49
Max over current rating	2.0A					
Temp Co-efficient	I _{sc} +0.06%/K V _{oc} -0.32%/K P _{mpp} -0.21%/K					
Max System Voltage	1000Vdc					

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)
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 EN6164 & 61730-1 & 61730-2 MCS 017 (BSI) Kitemark CE Mark