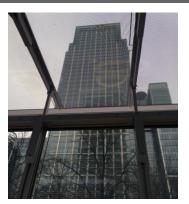


# Transparent Solar PV Glass

PS-CT Series Product Specifications for CdTe thin-film glass/glass laminate transparent glazing units







Polysolar's PS-CT panel provides an innovative, colourless design with variable transparency

Available in transparencies up to 50%

See-through aesthetic finish

PV generation even in ambient light

Less position sensitive - ideal for BIPV

Bespoke sizing / glass available

Single or double glazed panels available







### **Physical Specifications PS-CT Series**

Active Material of Cell		Cadmium Telluride (CdTe)			
Encapsulation Material		Polyvinyl butyrate (PVB) thickness 0.4 mm			
Front Cover		Float Glass,thickness: 3.2 mm			
Back Cover		Tempered Glass, thickness: 3.2 mm			
Wiring Material & thickness		Tin & silver coated copper ribbon: 0.1 mm			
Junction Box	Bipass diode	10 A			
	IP Class	IP 65			
Cable length		700 mm (+) 700 mm (-) side mounted junction box or 650 mm (+) 650 mm (-) back mounted junction box			
Connecting Cable Plug		Rated voltage 1000 V D.C. Temperature range: -40 to 85 °C Plug/Socket MC4 compatible Ø 4 mm Cable cross section: 2.5 mm <sup>2</sup>			
Transparency		Variable 10-50%			
Frame		Frameless			
Dimensions	Width	600 mm +2/-1 mm			
	Length	1200 mm +2/-1 mm			
	Thickness	6.8 mm +2/-1 mm			
Weight		11.8 kg			
The product is tested under 2400 Day (FO lb (ft2) product and or expersive stable to a wind an and					

The module is tested under 2400 Pa (50 lb/ft<sup>2)</sup> 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-CT Series Transparent**

	Class	Stabilized Performance STC					
Polysolar Model		Transparency	V <sub>mpp</sub> (V)	I <sub>mpp</sub>	V <sub>oc</sub> (V)	I <sub>sc</sub> (A)	
		Electrical tolerance +5/-0%					
PS-CT-72	72 W	10%	87.0	0.82	116	0.88	
PS-CT-64	64 W	20%	87.0	0.73	116	0.78	
PS-CT-56	56 W	30%	87.0	0.64	116	0.68	
PS-CT-48	48 W	40%	87.0	0.55	116	0.59	
PS-CT-40	40 W	50%	87.0	0.46	116	0.49	
Max over current rating	2.0 A						
		I <sub>sc</sub> + 0.06%/K					
Temperature Coefficient	V <sub>oc</sub> – 0.32%/K						
	P <sub>mpp</sub> – 0.21%/K						
Max System Voltage		1000 V					

#### Warranty

Warranty on Product	Warranty on Performance			
(Workmanship & Materials)	(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 EN 61646 & 61730-1 & 61730-2 MCS 017 (BSI) Kitemark			

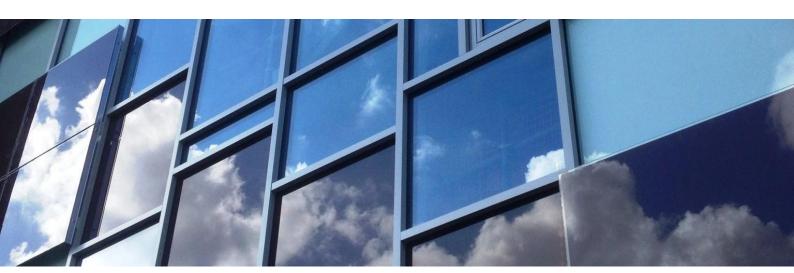
The unit's electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow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



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