



PS-CT Series panels

STC 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%

Highly aesthetic finish

Works at ambient light levels

Less position sensitive

Bespoke sizing available

Single or double glazed panels available





Physical Specifications PS-CT Series

Active Material of Cell		Cadmium Telluride (CdTe)
Cells		Polyvinyl butyrate (PVB) thickness 0.4 mm
Module Structure		Glass / EVA / Backsheet (Black)
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		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 oC Plug/Socket MC4 compatible Ø 4 mm Cable cross section: 2.5 mm ²
Transparency		Variable 10-50%
Frame		Frameless
Dimensions	Length	1200 mm +2/-1 mm
	Width	600 mm +2/-1 mm
	Thickness	6.8 mm +2/-1 mm
Weight		11.8 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-CT Series Transparent

Polysolar Model	Class	Stabilized Performance STC				
		Transparency	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
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	2.0 A					
Temperature Coefficient	I _{sc} +0.06%/K V _{oc} -0.32%/K P _{mpp} -0.21%/K					
Max System Voltage	1000 V					

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 EN 61646 & 61730-1 & 61730-2 MCS 017 (BSI) Kitemark 642424 CE Mark



Polysolar

www.polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@polysolar.co.uk



World leader's in the design, development and project management of Building Integrated Photovoltaic solutions

Cambridge Office

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

London Office

Polysolar Limited
One Canada Square
Canary Wharf
London E14 5AB
UK