



Polysolar



PS-CT Transparent 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





Polysolar

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		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 °C Plug/Socket MC4 compatible Ø 4 mm Cable cross section: 2.5 mm ²
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 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

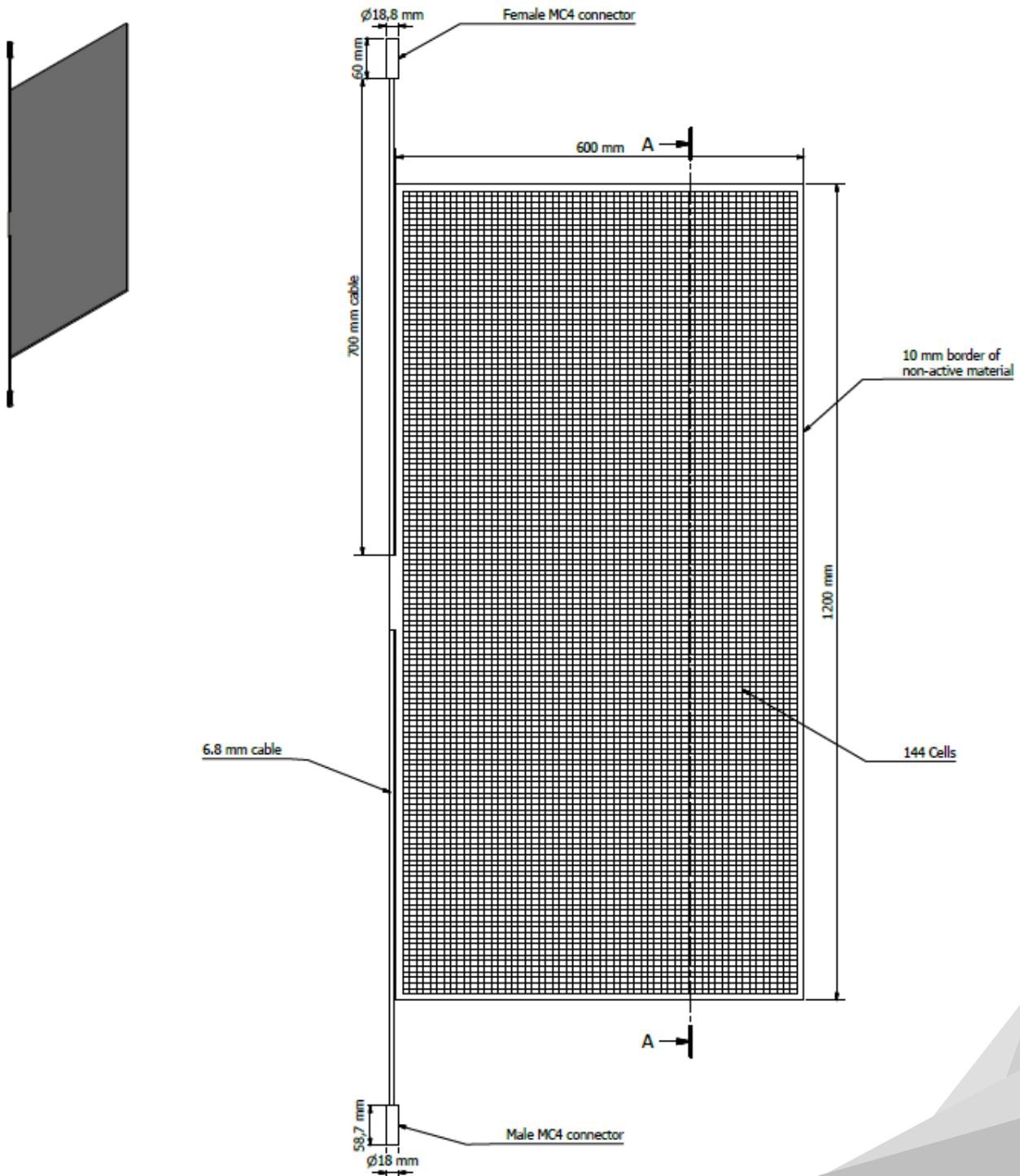
Polysolar Model	Class	Stabilized Performance STC				
		Transparency	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
		Electrical tolerance +5/-0%				
PS-CT-72	72 W	10%	87.0	0.82	116	0.88
PS-CT-64	64 W	20%	87.0	0.73	116	0.78
PS-CT-56	56 W	30%	87.0	0.64	116	0.68
PS-CT-48	48 W	40%	87.0	0.55	116	0.59
PS-CT-40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

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





Polysolar

www.polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@polysolar.co.uk



World leaders in the design, development and project management of Building Integrated Photovoltaic solutions

Cambridge Office

Polysolar Limited
Aurora BAS
High Cross, Madingley Rd
Cambridge CB3 0ET
UK

London Office

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