



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





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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
<p>The module is tested under 2400 Pa (50 lb/ft²) 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.</p>		

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					

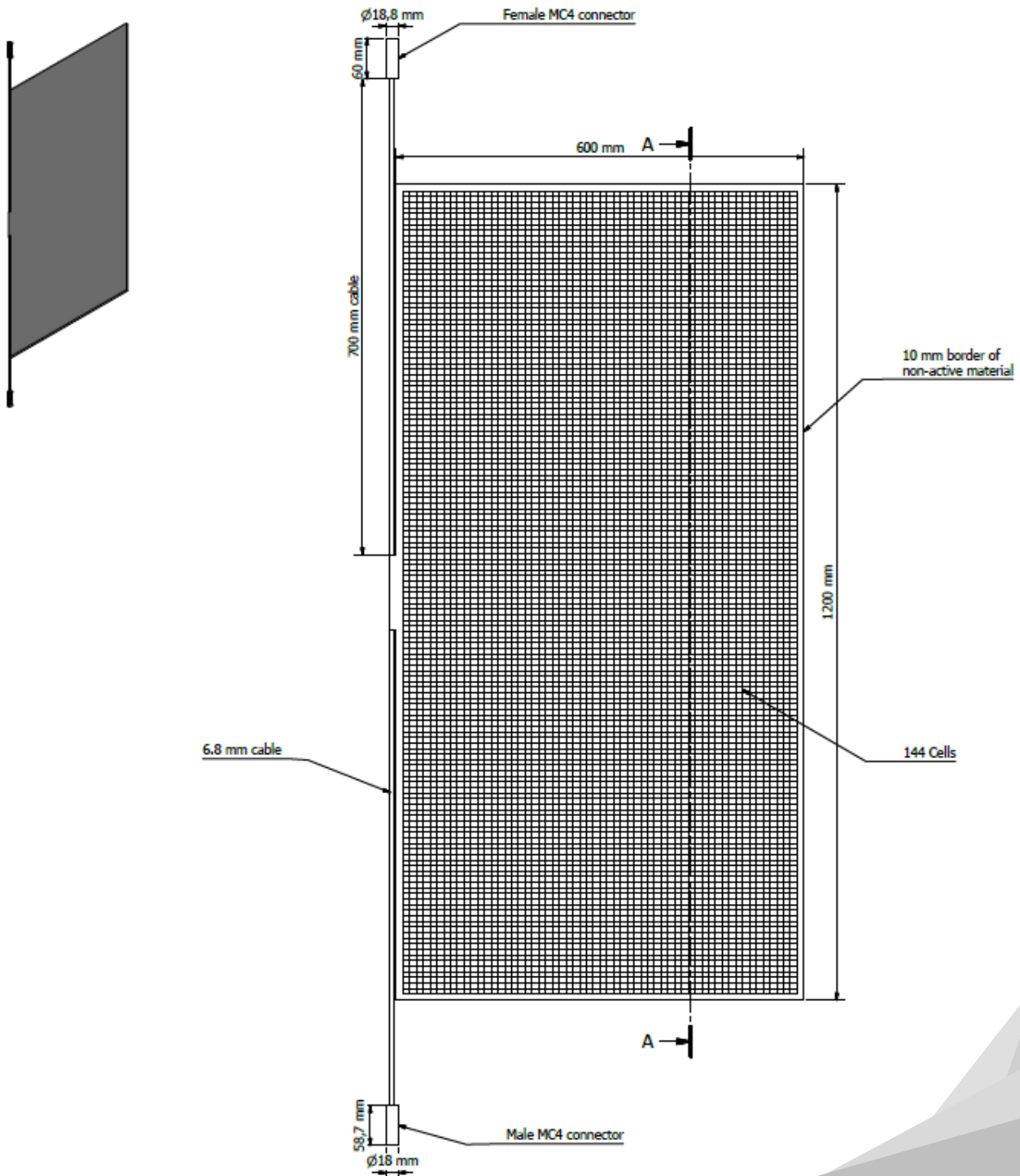
The unit's electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow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



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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





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