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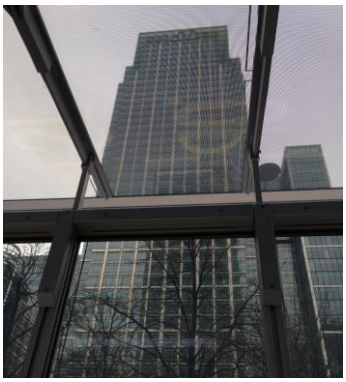
Solar Panel Guide
Specification Data Sheet

Polysolar Limited
PS -CT-Series Transparent Panels
PS-CT-56

Polysolar

PS -CT-Series Transparent panels

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



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

Available in transparencies up to 50%

Highly aesthetic finish

Works down to ambient light levels

Less position sensitive

Bespoke sizing available

Single or double glazed panels available

APPROVED PRODUCT

MCS

Polysolar

Physical Specifications PS-CT Series

Active Material of Cell		Cadmium Telluride (CdTe)
Encapsulation Material		Polyvinyl butyrate (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	**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 Volts 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	Vmpp (V)	Impp (A)	Voc (V)	Isc (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	2.0 A					
Temperature Coefficient	Isc +0.06%/K Voc –0.32%/K Pmpp –0.21%/K					
Max System Voltage	1000 Vdc					

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 Isc and Voc 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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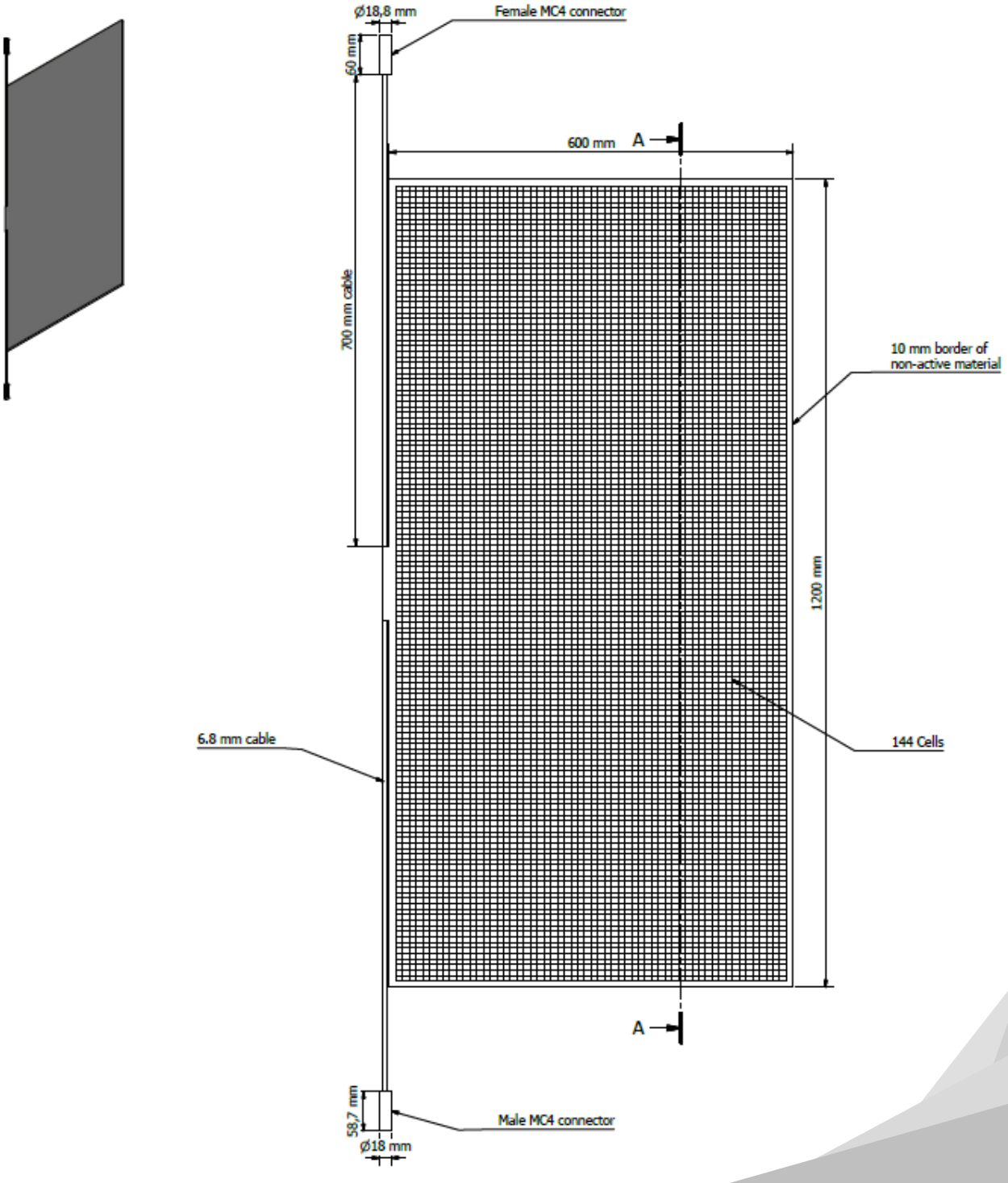
Warranty

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



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