



# Polysolar

## PS-CT-85 Opaque panels

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



**Polysolar's black opaque thin-film PS-CT series is a high efficiency panel with side or back connectors**

High energy yield 118 W/m<sup>2</sup>

Highly aesthetic black finish

Works down to ambient light levels

Less position sensitive

Bespoke sizing available

Single or double glazed panels available



APPROVED PRODUCT





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## Physical Specifications PS-CT-Series Opaque

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 <sup>2</sup>
Transparency		None
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 <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 Opaque

Polysolar Model	Class	Stabilized Performance STC			
		V <sub>mpp</sub> (V)	I <sub>mpp</sub> (A)	V <sub>oc</sub> (V)	I <sub>sc</sub> (A)
PS-CT-85 Opaque	85 W	96.6	0.88	120.5	0.98
Max over current rating	2.0 A				
Temp Co-efficient	I <sub>sc</sub> + 0.06%/K V <sub>oc</sub> - 0.32%/K P <sub>mpp</sub> - 0.21%/K				
Max System Voltage	1000 V				

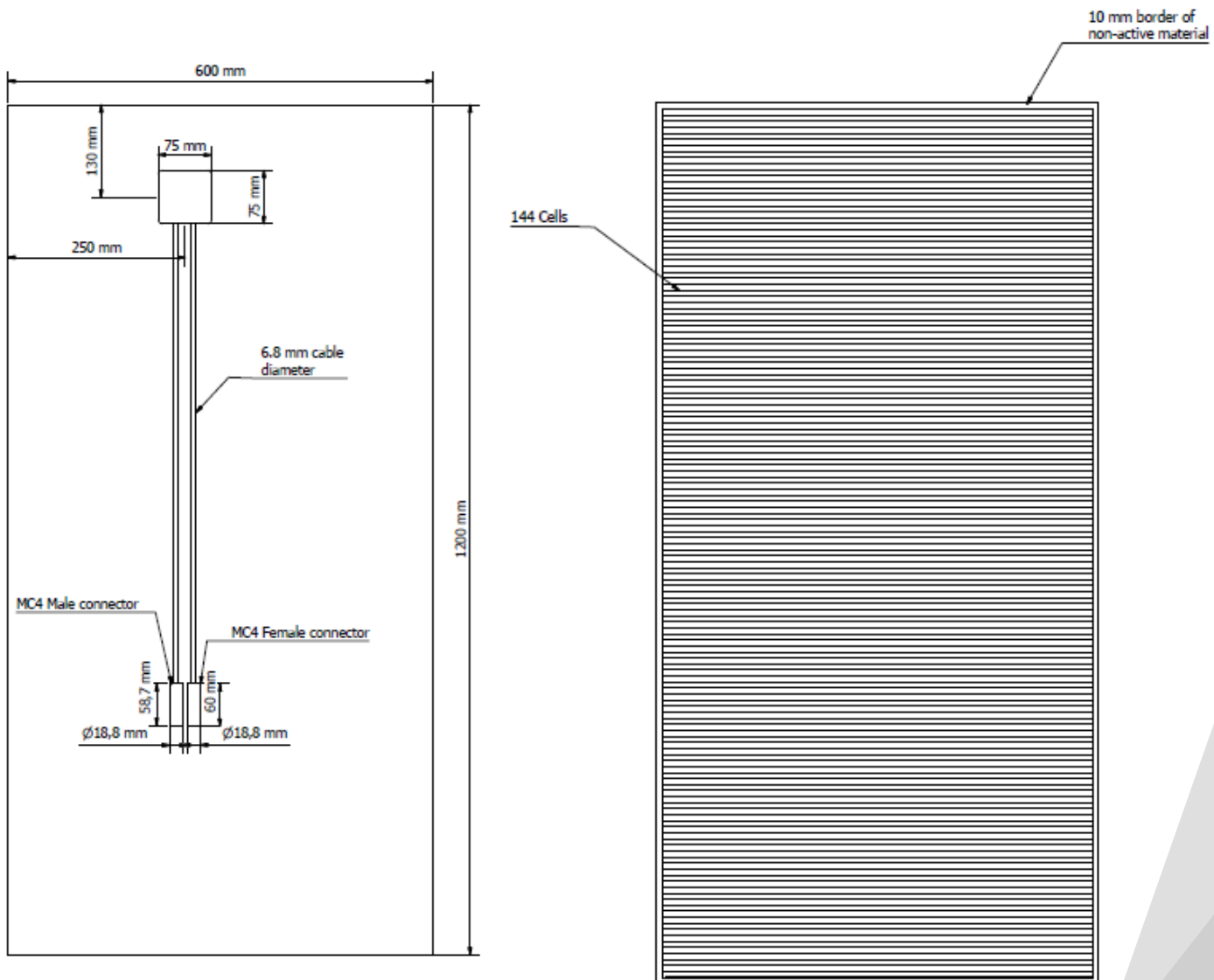
The unit's electrical ratings are measured under Standard Test Conditions (STC) and have been delivered on the specific table of electrical characteristics as shown above. A photovoltaic module may produce more current and/or voltage than reported at STC. Sunny, cool weather and reflection from snow or water can increase current and power output. Therefore, the values of I<sub>sc</sub> and V<sub>oc</sub> 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/m<sup>2</sup>, 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
<b>Certifications</b>	IEC EN 61646 & 61730-1 & 61730-2 MCS 017 (BSI) Kitemark CE Mark







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