Polysolar

PS -CT-Series 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 Watts/m^2

Highly aesthetic black finish

Works down to ambient light levels

Less position sensitive

Bespoke sizing available

Single or double glazed panels available

APPROVED PRODUCT

MCS

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Physical Specifications PS-CT-Series Opaque

Active Material of Cell		Cadmium Telluride (CdTe)
Encapsulation Material		Ethylene-vinyl acetate (EVA)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 diaode	10A
	IP Class	IP 65
Cable length		700mm (+) 700mm (-) side mounted junction box or 650mm (+) 650mm (-) back mounted junction box
Connecting Cable Plug		Rated voltage 1000 Volts D.C. Temperature range: -40 to 85°C Plug/Socket MC4 compatible Ø 4mm Cable cross section: 2.5mm^2
Transparency		Variable 0-40%
Frame		Frameless
Dimensions	Width	600mm+2/-1mm
	Length	1200mm +2/-1mm
	Thickness	6.8 mm+2/-1mm
Weight		11.8Kg
The module is tested under 2400 Pa (50lb/ft$^{2)}$ mechanical load or approximately to a wind speed of 130km/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			
		Vmpp (V)	Impp (A)	Voc (V)	Isc (A)
		Electrical tolerance +5/-0%			
PS-CT-85 Opaque	85W	96.6	0.88	120.5	0.98
Max over current rating	2.0A				
Temp Co-efficient	Isc +0.06%/K Voc –0.32%/K Pmpp –0.21%/K				
Max System Voltage	1000Vdc				

The units 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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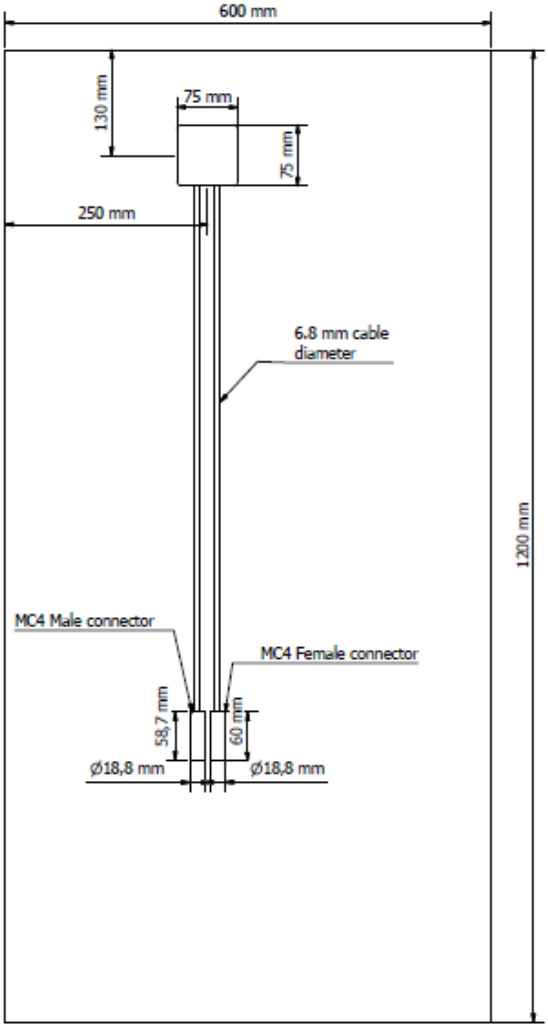
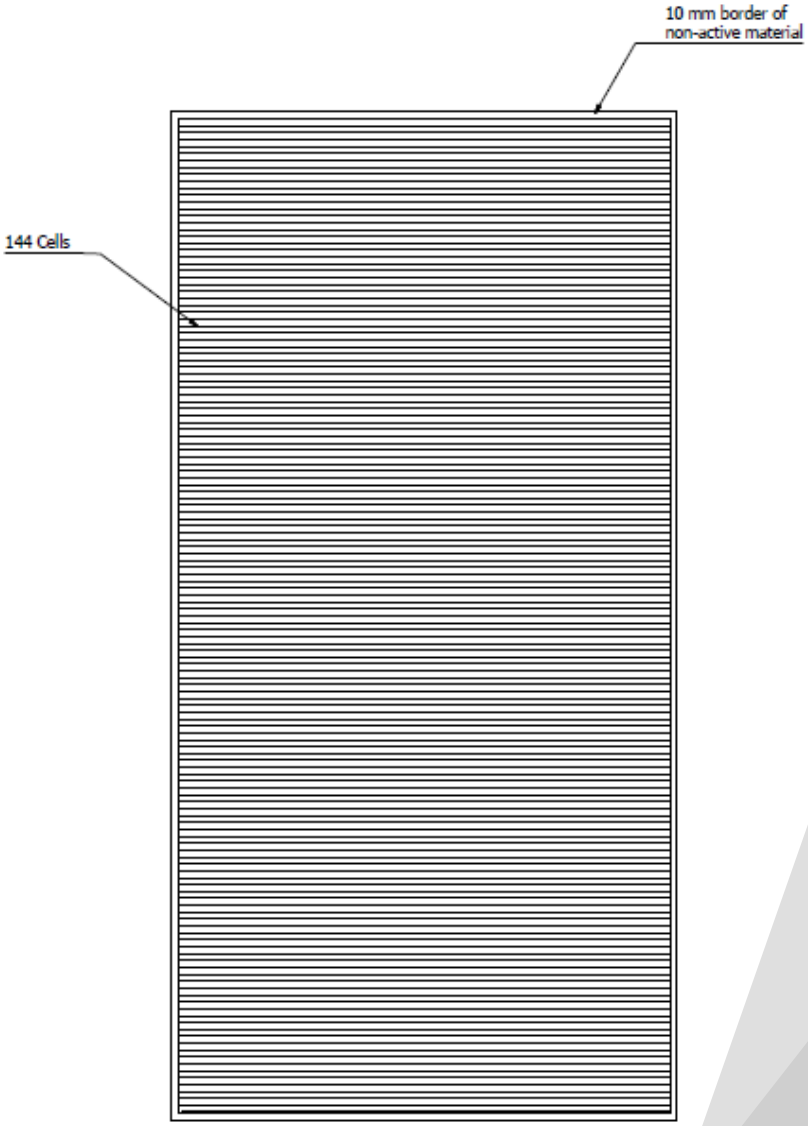
Warranty

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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