PS-MC-ST Series panels

STC Product Specifications for c-Si monocrystalline silicon bifacial glass/glass laminate BIPV

Polysolar's PS-MC-ST series semi transparent glass-glass panels incorporate the latest monocrystalline silicon cell technology to achieve high efficiencies

Module efficiency 20%

Bifacial cells frameless module

Superior durability

30 year product & performance warranty

Variable transparencies

Up to 35% more generation dual sided*

Polysolar

Physical Specifications PS-MC-ST Series

Active Material of Cell		Monocrystalline silicon bifacial
Cells		166 x 166 mm
Front Cover		Tempered Glass, thickness: 3 mm
Back Cover		Tempered Glass, thickness: 3 mm
Frame		Frameless
Dimensions	Width	1049 mm (+ edge seal 1778mm)
	Length	1770 mm (+ edge seal 1057mm)
	Thickness	7.1 mm
Cable length and cross section		1.2m @ 4 mm^2
Weight		30 kg
Connector/ Bypass Diodes		MC4 / 3
The module is tested under 5400/10500 kPa mechanical load for wind and snow loadings with various certified mounting solutions warranted by Polysolar. Fire Class A		

Electrical Specifications PS-MC-SE Series

Polysolar Model	Class Wp	Trans-parency	Stabilized Performance STC			
			V_{mpp} (V)	I_{mpp} (A)	V_{oc} (V)	I_{sc} (A)
PS-MC-ST-60	370	10%	34.86	10.62	40.50	11.18
Temperature Co-efficient	I_{sc} + 0.036%/K V_{oc} – 0.265%/K P_{mpp} – 0.362%/K					
Maximum Voltage/Current	1000V / 20A					

Warranty

Warranty on Product (Workmanship & Materials)	Warranty on Performance (Power Grade Output)
30 years from date of shipment 87% Power Guarantee	
Certifications	IEC EN 61215 & 61730 CE Mark C2C Gold Certified by TUV & BSI & Kiwa MCS 015 Certified IEC 62716, IEC 61701, IEC61215 ISO9001, ISO14001, ISO45001

Manufactured in Europe

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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