



Polysolar



PS-MC-SE Series panels

STC Product Specifications for c-Si monocrystalline glass/glass laminate BIPV glazing units



Polysolar's PS-MC-SE glass-glass panels incorporate monocrystalline technology to achieve high efficiencies

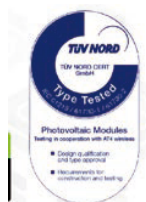
Up to 175 W/m²

17.5 % efficiency

Higher efficiency

Increased durability

Bespoke sizing available





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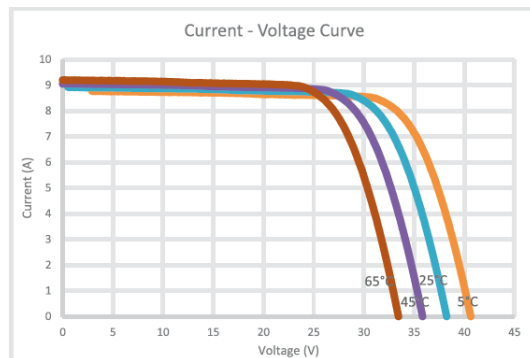
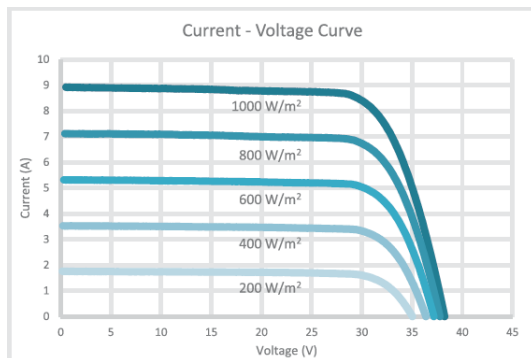
Physical Specifications PS-MC-SE Series

Active Material of Cell	Monocrystalline silicon	
Cells	156 x 156 mm	
Front Cover	Tempered Glass, thickness: 2.1 mm	
Back Cover	Tempered Glass, thickness: 2.1 mm	
Frame	Frameless	
Dimensions	Width	1988 mm+2/-1 mm
	Length	992 mm +2/-1 mm
	Thickness	7.1 mm
Cable cross section	4 mm ²	
Weight	32 kg	

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

Electrical Specifications PS-MC-SE Series

Polysolar Model	Class	Stabilized Performance STC			
		V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
PS-MC-SE 345 (10%)	345 W	37.62	9.17	47.18	9.62
PS-MC-SE 300 (20%)	300 W	38.45	7.80	46.26	8.53
PS-MC-SE 270 (30%)	270 W	38.08	7.22	46.62	7.76
PS-MC-SE 200 (45%)	200 W	37.82	5.29	46.35	5.68
Temperature Co-efficient	I _{sc} + 0.04%/K V _{oc} - 0.35%/K P _{mpp} - 0.47%/K				
Module Efficiency	17.5 %				



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 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)
30 years from date of shipment	<p>The graph illustrates the performance warranty over a 30-year period. The y-axis represents performance percentage (80% to 100%), and the x-axis represents years (0 to 30). A solid line shows the performance starting at 100% and decreasing to 80% by year 30. A horizontal dashed line at 90% performance is shown from year 0 to 10, then drops to 80% at year 10. The area under the solid line from year 0 to 10 is labeled 'PRODUCT WARRANTY'. The area under the solid line from year 10 to 25 is labeled 'PERFORMANCE WARRANTY'. The area under the horizontal dashed line from year 0 to 25 is labeled 'INDUSTRY-STANDART WARRANTY TERMS'.</p>
Certifications	IEC EN 61215 & 61730 CE Mark Certified by TUV NORD MCS Certified



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