



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

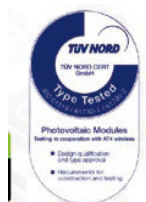
Up to 175 W/m²

17.5 % efficiency

Higher efficiency

Increased durability

Bespoke sizing available





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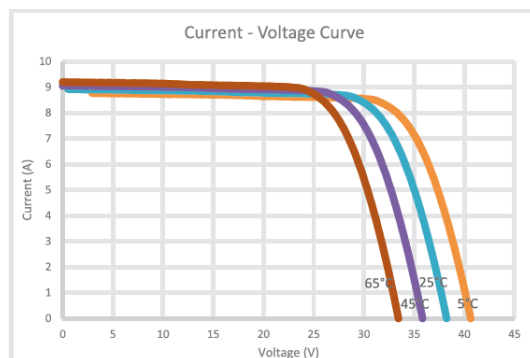
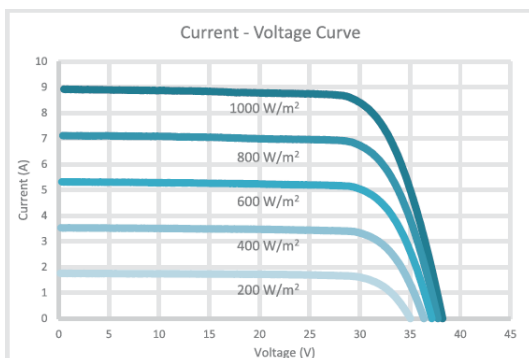
Physical Specifications PS-MC-SE Series

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 degradation from 100% at year 0 to 80% at year 30. A dashed horizontal line at 90% performance is shown from year 0 to year 25, representing industry-standard warranty terms. The area under the solid line from year 0 to year 25 is shaded and labeled 'PRODUCT WARRANTY'. The area under the solid line from year 25 to year 30 is shaded and labeled 'PERFORMANCE WARRANTY'. The area under the dashed line from year 0 to year 25 is hatched and labeled 'INDUSTRY-STANDART WARRANTY TERMS'.</p>
Certifications	IEC EN 61215 & 61730 CE Mark Certified by TUV NORD MCS Certified



Polysolar

www.polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@polysolar.co.uk



*World leaders in the design, development and project management of Building
Integrated Photovoltaic solutions*

Cambridge Office

Polysolar Limited
Aurora BAS
High Cross, Madingley Rd
Cambridge CB3 0ET
UK

London Office

Polysolar Limited
One Canada Square
Canary Wharf
London E14 5AB
UK