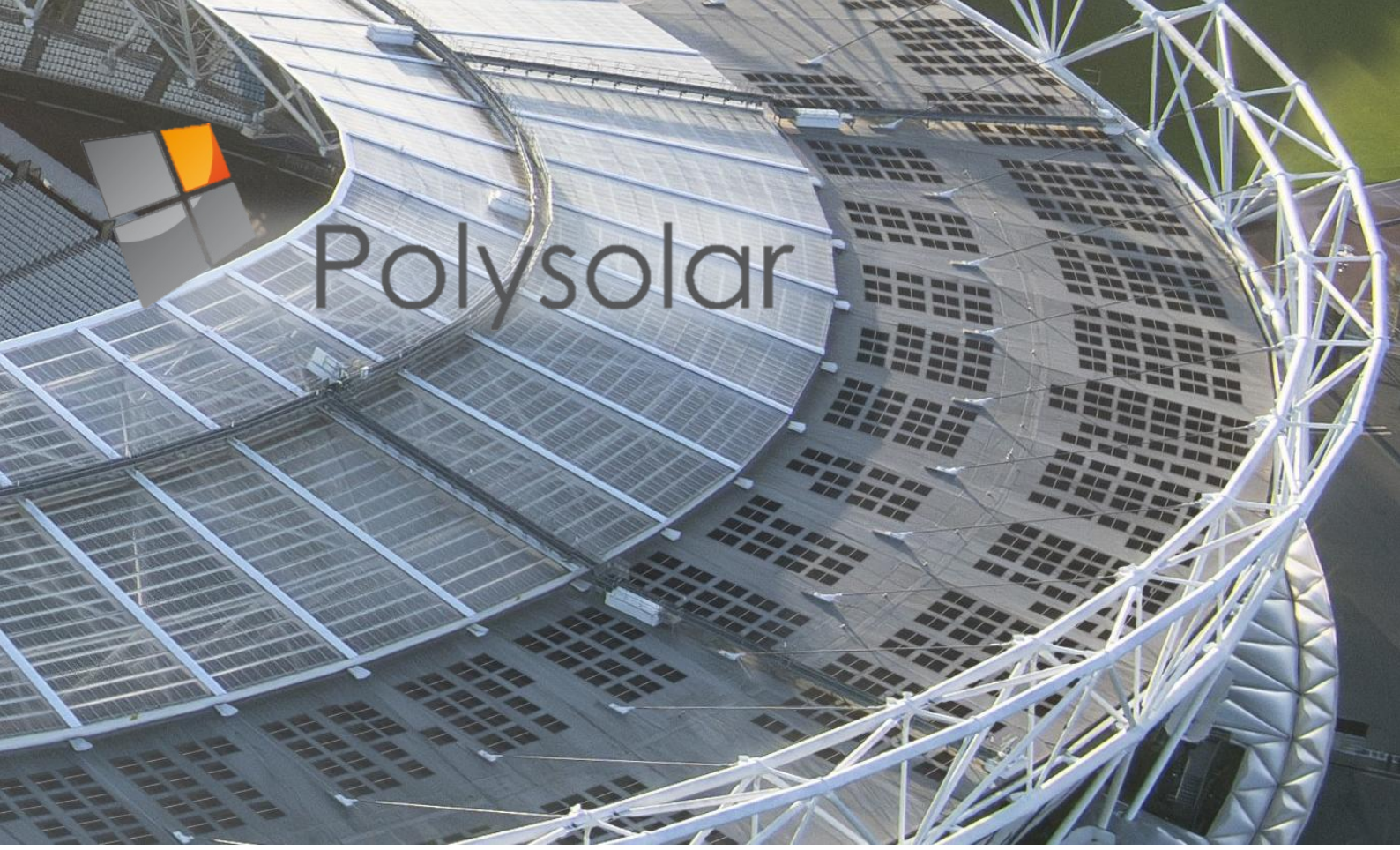
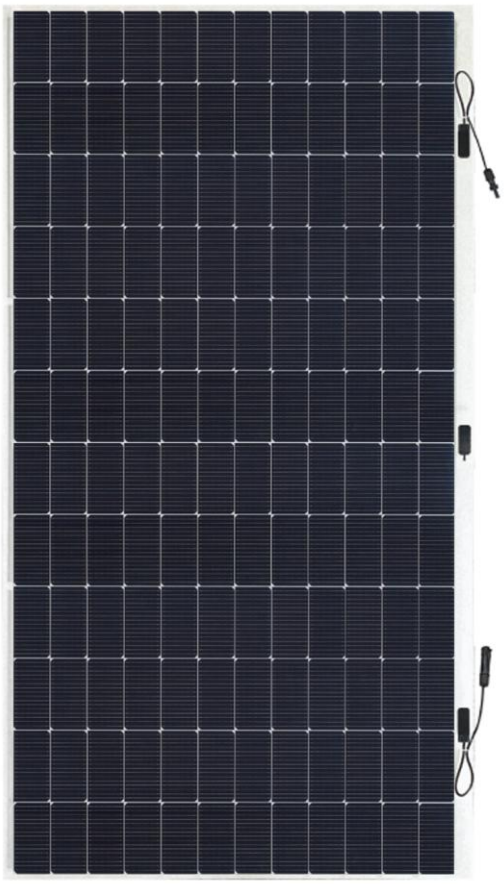


PS-MC-HS Series panels

STC Product Specifications for c-Si Mono Perc crystalline solar panels



Polysolar's lightweight PS-MC-HS Mono TOPCon modules offer high efficiencies up to 20.8% & a 12-year warranty

- Lightweight < 3.5 kg/m2, 3mm thick
- Ultra thin silicon wafers with advanced organic polymer encapsulation, offering bending radius of 0.3m
- Ease of installation - No mounting frame requirement, with bonded or riveted mounting solutions
- Comparable performance efficiencies to conventional solar panels
- Sand, dust, acid, alkali and salt mist resistance and hail shock durability

polysolar.co.uk, Tel:+44(0)1223911534, info@polysolar.co.uk

Polysolar

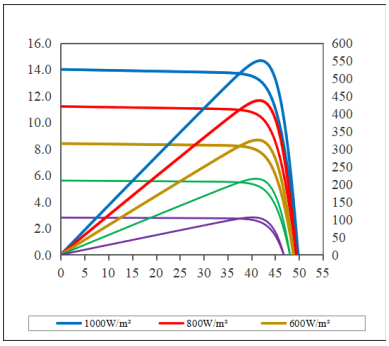
Physical Specifications PS-MC-HS Series

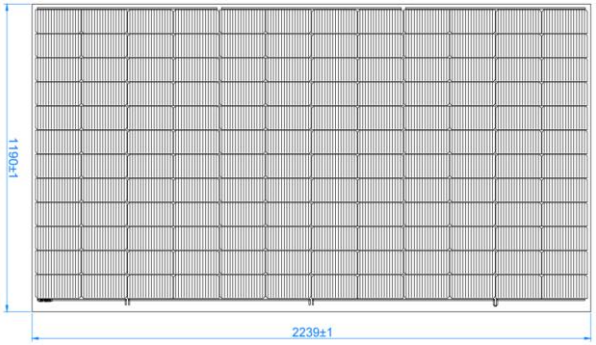
Active Material of Cell		Mono Crystalline Silicon
Cells		144 (12 x 12)
Encapsulant		POE White Back Sheet
Frame		None
Dimensions	Width	1190 mm
	Length	2239 mm
	Height	3 mm
Cable cross section Junction Box		4 mm^2 IP68
Weight		7.7 kg
The module is tested under 2400 Pa (50lb/$ft^{2)}$ mechanical load or approximately to a wind speed of 1m/s. Ambient Temperature 25°C, Irradiation 1000W/m^2		

Electrical Specifications PS-MC-HS Series

Polysolar Model	Class	Stabilized Performance STC			
		Vmpp (V)	Impp (A)	Voc (V)	Isc (A)
PS-MC-HS535	535W	41.3	12.96	49.50	13.67
PS-MC-HS540	540W	41.5	13.02	49.70	13.75
PS-MC-HS545	545W	41.7	13.07	49.90	13.83
PS-MC-HS550	550W	41.9	13.13	50.10	13.91
PS-MC-HS555	555W	42.1	13.19	50.30	13.99
Temperature Coefficient	Isc 0.046%/°C Voc –0.25%/°C -0.31Pmpp %/°C				

I-V Curves & Dimensions





Warranty

Warranty on Product (Workmanship & Materials)	Warranty on Performance (Power Grade Output)
12 years from date of shipment	25 year period from date of shipment . 1st Year degradation less than 2%. 84.8% guaranteed for 25 years
Manufacturer Certifications	IEC EN61215 & 61730 & 62804, UL 61730 ISO 9001: Quality Management System ISO 14001: Environmental Management ISO 45001: Health & Safety Management System

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 on the units.