

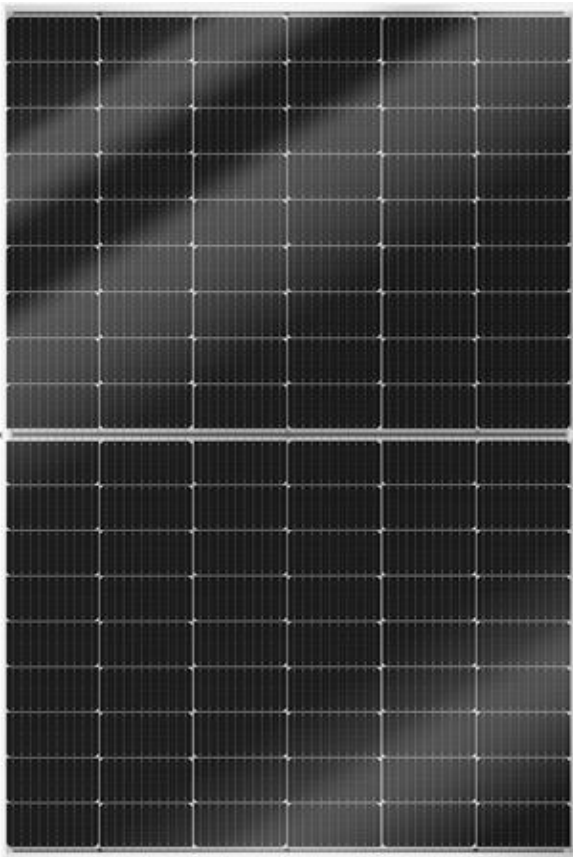


Polysolar



PS-MC-GL Series panels

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



Polysolar's lightweight PS-MC-GL Mono PERC modules offer high efficiencies up to 21.6% & a 12-year warranty

- Lightweight – only 9.1kg (4.7kg/m²), 2.5mm thick
- High Strength – ultra thin tempered glass
- Ease of Installation - No mounting frame requirement, with bonded or riveted and other fixing solutions
- High Efficiency – Busbar free design increases cell conversion efficiency and improved low radiance performance
- polysolar.co.uk, Tel:+44(0)1223911534, info@polysolar.co.uk



Physical Specifications PS-MC-GL Series

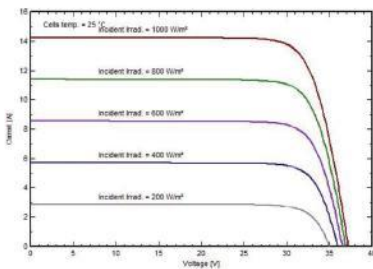
Active Material of Cell		Mono Crystalline Silicon PERC
Cells		108 (6 x 18)
Encapsulant		POE White Back Sheet
Frame		None
Dimensions	Width	1128 mm
	Length	1716 mm
	Height	2.2 mm
Cable cross section Junction Box		4 mm ² IP68
Weight		9.1kg
The module is tested under 2400 Pa (50lb/ft ²) mechanical load or approximately to a wind speed of 1m/s. Ambient Temperature 25°C, Irradiation 1000W/m ²		

Electrical Specifications PS-MC-GL Series

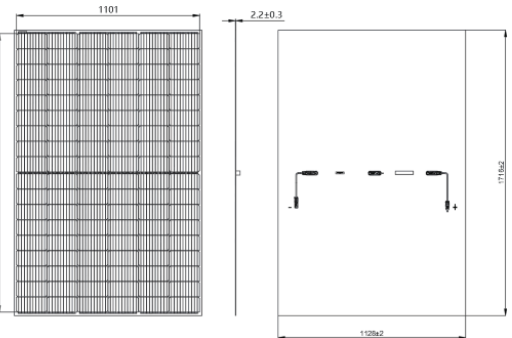
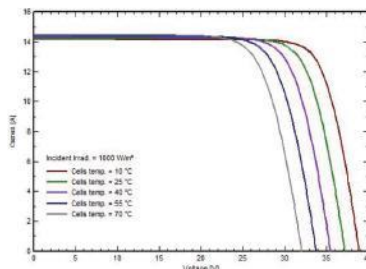
Polysolar Model	Class	Stabilized Performance STC			
		V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
PS-MC-GL405	405W	31.2	13.4	37.00	14.04
PS-MC-GL410	410W	31.28	13.13	37.20	14.10
PS-MC-GL415	415W	31.45	13.22	37.40	14.16
PS-MC-GL420	420W	31.66	13.29	37.60	14.22
Temperature Co-efficient		I _{sc} +0.048%/°C V _{oc} -0.26%/°C P _{mpp} -0.35%/°C			

I-V Curves & Dimensions





I-V Curves of SSD410AH5T at different irradiance



I-V Curves of SSD410AH5T at different cell temp.



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 . 1 st Year degradation less than 2%. 84.8% guaranteed for 25 years
Insured by Lloyd's of London	
Manufacturer Certifications    	IEC EN61215 & 61730 - TUV CE Mark 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 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 on the units.