



Polysolar



PS-M-NX Series panels

STC Product Specifications for a-Si/ μ c-Si thin-film glass/glass laminate BIPV glazing units



Polysolar's PS-M-NX opaque and transparent panels incorporate micromorph technology to achieve high efficiencies and aesthetic design.

Up to 104 Watts/m²

Highly aesthetic black finish

Transparencies up to 50% available

Works down to ambient light levels

Less position sensitive

Bespoke sizing available

Single or double glazed panels available





Polysolar

Physical Specifications PS-M-NX Series

Active Material of Cell		Amorphous Silicon Tandem cell (α -Si/ μ c-Si)
Encapsulation Material		Polyvinylbutyral (EVA/PVB) thickness 0.9mm
Front Cover		Tempered Glass, thickness: 4 mm
Back Cover		Tempered Glass, thickness: 4 mm
Wiring Material		Tin & silver coated copper ribbon thickness 0.1 mm
Junction Box	Bypass diode	10A
	IP Class	IP 65
Cable length		700mm (+) 700mm (-) side mounted junction box or 650mm (+) 650mm (-) back mounted junction box
Connecting Cable Plug		Rated voltage 1000 Volts D.C. Temperature range: -40 to 85°C Plug/Socket MC4 compatible \varnothing 4mm Cable cross section: 2.5mm ²
Transparency		Variable 0-50%
Frame		Frameless
Dimensions	Width	1100mm+2/-1mm
	Length	1400mm +2/-1mm
	Thickness	6.8 mm+2/-1mm
Weight		32Kg
The module is tested under 2400 Pa (50lb/ft ²) mechanical load or approximately to a wind speed of 130km/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-M-NX Series

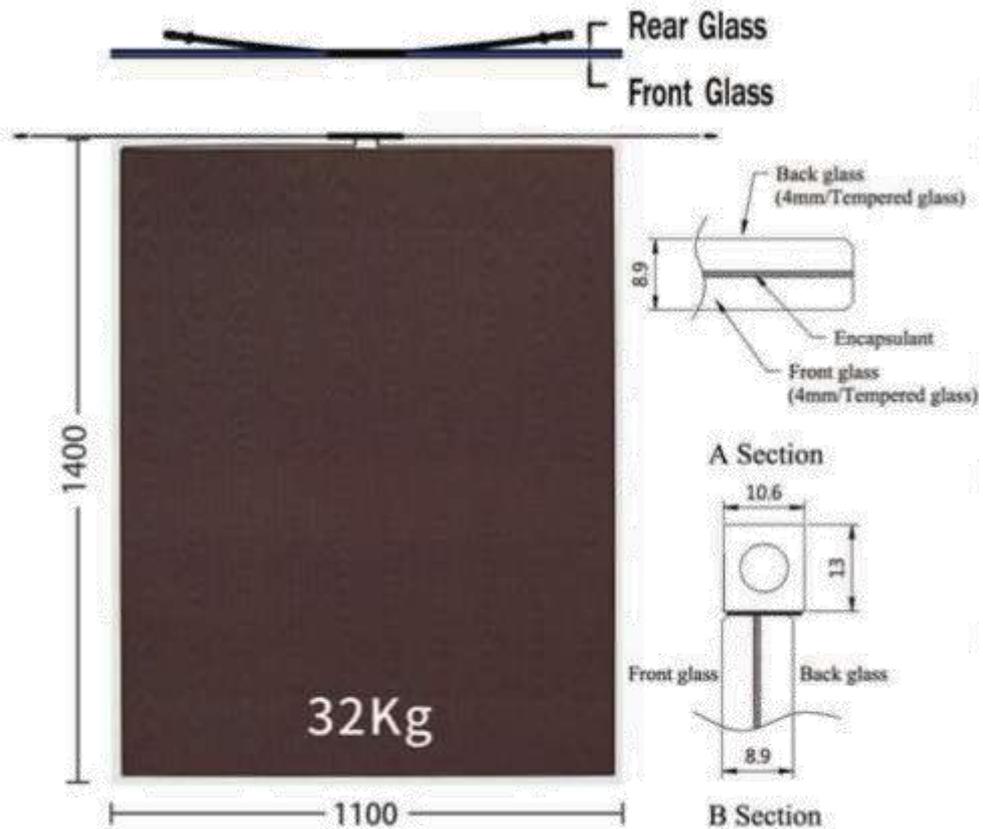
Polysolar Model	Class	Stabilized Performance STC				
		Transparency	V _{mpp} (V)	I _{mpp} (A)	V _{oc} (V)	I _{sc} (A)
		Electrical tolerance +5/-0%				
PS-M-NX 160AN	160W	Opaque	131	1.22	170	1.33
PS-M-NX 135AN	135W	10%	125	1.08	167	1.19
PS-M-NX 120AN	120W	20%	125	0.96	167	1.08
PS-M-NX	95W	30%	120	0.79	166	0.89
PS-M-NX	80W	40%	120	0.67	165	0.77
PS-M-NX	65W	50%	118	0.55	164	0.64
Max over current rating	2.0A					
Temp Co-efficient	I _{sc} +0.06%/K V _{oc} -0.32%/K P _{mpp} -0.21%/K					
Shading Coefficient	10% - 0.31, 20% 0.41					
Max System Voltage	1000Vdc					

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.



Warranty

Warranty on Product (Workmanship & Materials)	Warranty on Performance (Power Grade Output)
10 years from date of shipment	90% of power grade output of the module for a 10 year period and then 80% of the power grade output of the module for a 25 year period from date of shipment
Certifications	IEC EN61646 & 61730-1 TUV CE Mark





Polysolar

www.polysolar.co.uk

Tel: (+44) 01223 911534

Email: info@Polysolar.co.uk



World leader's in the design, development and project management of Building Integrated Photovoltaic solutions

Cambridge Office

Polysolar Limited
Hauser Forum
Charles Babbage Road
Cambridge CB3 0GT
UK

London Office

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