

BIOENERGY Solar Photovoltaic Panels stand for quality, durability and most importantly, high-performance. Our experience, capacity of research, continuing development and improvement have turned us into a company recognized in the sector by the high value offered to our clients.

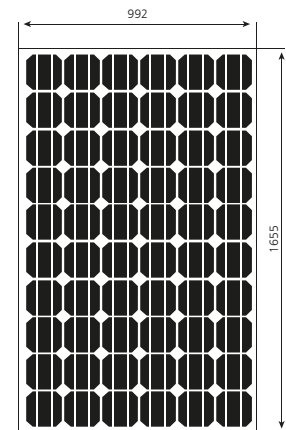
Highly transparent solar glass of 3.2 mm. and anodized aluminum frame for a perfect stability and a long duration. Sheeting at constant temperature provides a perfect cure of the module avoiding the formation of bubbles. The distance between the edge of the frame and the cell circuitry is optimized to ensure both waterproof sealing and maximum module size reduction.



Electrical Characteristics

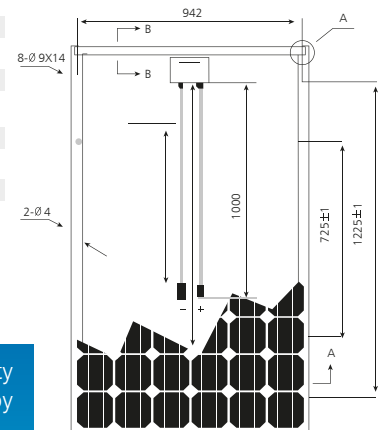
	235	240	245	250
Reference	P110235	P110240	P110245	P110250
Maximum power (Wp)	235 Wp	240 Wp	245 Wp	250 Wp
Max. power voltage (Vmax)	30.80	31.10	31.40	31.85
Max. power current (Imax)	7.64	7.73	7.81	7.85
Open circuit voltage (Voc)	36.60	37.00	37.30	37.66
Short circuit voltage (Isc)	8.55	8.65	8.75	8.85
Module Eff. (%)	14.3	14.6	14.9	15.30
Operating temperature	-40°C + 85°C			
Maximum system voltage	1000 V(IEC)			
Power tolerance (%)	0-3%			

Dimensions



Mechanical Characteristics

Solar cells	Monocrystalline
Dimensions	1655 x 992 x 45 mm
Weight	22.5 kg
No. Cells	60 cells (156 x 156 mm) configured geometrically for 10 x 6 matrix connected in series
Output cables length	900 mm
Cable cross section	4 mm ²
Construction	Front: High transmission 3.2 mm tempered glass. Low Iron.
Junction box	3 bypasses
Connectors	MC4 compatible



Temperature Coefficients

Nominal operating cell temperature (NOCT)	47 °C ± 2°C
Temperature coefficient of power (P _{MAX})	-0.43 %/°C
Temperature coefficient (VOC)	-0.31 %/°C
Temperature coefficient (ISC)	0.03 %/°C
Hail diameter 23 m/s	Up to 25mm
Continuous wind pressure	<5400 Pa

The 10 years product warranty surpasses the warranty required by law.

The performance warranty is for 25 years: After 10 years, modules still produce a minimum 90% of their nominal performance. After 25 years modules still produce a minimum 80% of their nominal performance.