bio 200-220

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.









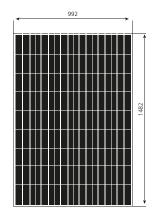
Electrical Characteristics

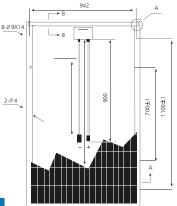
	200	205	210	215	220
Reference	P120200	P120205	P120210	P120215	P120220
Maximum power (Wp)	200	205	210	215	220
Max. power voltage (Vmax)	26.84	27	27.3	27.6	27.9
Max. power current (Imax)	7.45	7.6	7.7	7.8	7.9
Open circuit voltage (Voc)	32.7	33	33.3	33.8	34.2
Short circuit voltage (Isc)	8.16	8.28	8.4	8.5	8.6
Modulle Eff. (%)	13.6	14	14.28	14.6	14.96
Operating temperature	-40°C + 85°C				
Maximum system voltage	1000 V(IEC)				
Power tolerance (%)	0-3%				

Mechanical Characteristics

Solar cells	Polycristalline silicon			
Dimensions	1482x992x40 mm			
Weight	17 kg			
No. Cells	54 pcs (156x 156 mm) Silicon(6x9mm)			
Output cables length	1000 mm			
Cable cross section	4 mm ²			
Construction	High transmission , low iron, tempered glass 3.2 mm			
Junction box	3 bypasses			
Connectors	MC4 compatible			

Dimensions





Temperature Coefficients

Nominal operating cell temperature (NOCT)	47 °C ± 2°C
Temperature coefficient of power (PMAX)	-0.40 W/°C
Temperature coefficient (VOC)	-0.30 V/°C
Temperature coefficient (ISC)	0.04 A/°C
Hail diameter 23 m/s	Up to 25mm
Continuous wind pressure	. F400 B-

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 minimumt 90% of their nominal performance. After 25 years modules still produce a minimum 80% or their nominal performance.



