plus 235-250

MONO-CRISTALLINE

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.

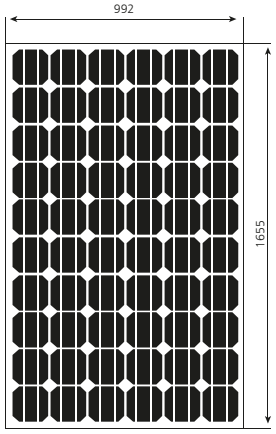
Due to their engineered hollow-section frame and its 4mm special solar glass (standard solar module has 3.2mm), BIOENERGY PLUS modules meet the maximum demands with regard to stability and corrosion resistance.

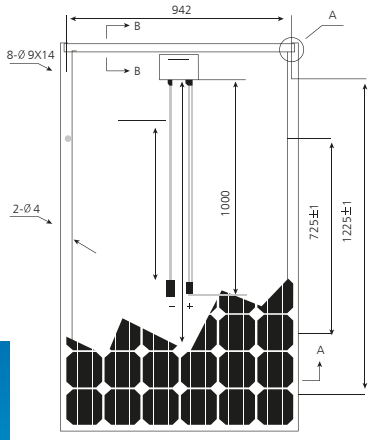
Thanks to their high performance BIOENERGY PLUS modules are prepared for changes in legislation. These panels will produce 5% more than any other of the same features.

Electrical Characteristics

	235	240	245	250
Reference	P111235	P111240	P111245	P111250
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
Modulle 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	Mono-crystalline
Dimensions	1655 x 992 x 45 mm
Weight	22.5 kg
Junction Box	IP65
No. Cells	60 pcs (156 x 156 mm) Poly-Crystalline (10x8mm)
Output cables length	900 mm
Cable cross section size	4 mm²
Construction	High Transmission, Low Iron, Tempered Glass 4 mm
Bypass-Diodes	3 bypass
Connectors	MC4 compatible

Temperature Coefficients

Nominal operating cell temperature (NOCT)	47 °C ± 2°C
Temperature coefficient of power (PMAX)	-0.43 %/°C
Temperature coefficient (VOC)	-0.31 %/°C
Temperature coefficient (ISC)	0.03 %/°C
Continuous wind pressure	<5400 Pa

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

The performance warranty is for 30 years: after 12 years, modules still produce a minimumt 90% of their nominal performance, after 30 years modules still produce a minimum 80% or their nominal performance.