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.



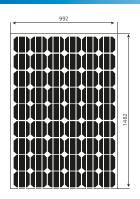
Electrical Characteristics

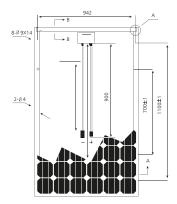
| | 210 | 215 | 220 | 225 | 230 |
|-----------------------------|--------------|---------|---------|---------|---------|
| Reference | P110210 | P110215 | P110220 | P110225 | P110230 |
| Maximum power (Wp) | 210 Wp | 215 Wp | 220 Wp | 225 Wp | 230 Wp |
| Max. power voltage (Vmax) | 27.60 | 27.90 | 28.20 | 28.60 | 29.10 |
| Max. power current (Imax) | 7.60 | 7.70 | 7.80 | 7.85 | 7.90 |
| Open circuit voltage (Voc) | 33.00 | 33.30 | 33.70 | 33.90 | 34.40 |
| Short circuit voltage (Isc) | 8.48 | 8.60 | 8.70 | 8.85 | 8.90 |
| Modulle Eff. (%) | 14.3 | 14.6 | 15.0 | 15.3 | 15.6 |
| Operating temperature | -40°C + 85°C | | | | |
| Maximum system voltage | 1000 V(IEC) | | | | |
| Power tolerance (%) | 0-3% | | | | |

Mechanical Characteristics

| Solar cells | Monocristalline |
|----------------------|---|
| Dimensions | 1482 x 992 x 40 mm |
| Weight | 17 kg |
| No. Cells | 54 cells (156 x 156 mm) configured geometrically for 6 x 9 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 |

Dimensions





Temperature Coefficients

| Nominal operating cell temperature (NOCT) | 47 °C ± 2°C |
|---|-------------|
| Temperature coefficient of power (PMAX) | -0.43 W/°C |
| Temperature coefficient (VOC) | -0.31 V/°C |
| Temperature coefficient (ISC) | 0.03 A/°C |
| Hail diameter 23 m/s | Up to 25mm |
| Continuous wind pressure | <5400 Pa |

The 10 years product warranty surpasses the warranty required by

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.