photovoltaics | shine

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 through our efficient rendering of services and, especially, for the high quality of our products.



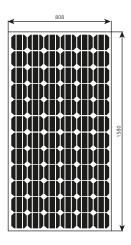
Electrical Characteristics

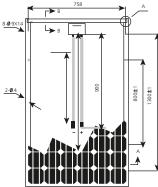
| | 175 | 180 | 185 | 190 |
|-----------------------------|--------------|---------|---------|---------|
| Reference | P112175 | P112180 | P112185 | P112190 |
| Maximum power (Wp) | 175 Wp | 180 Wp | 185 Wp | 190 Wp |
| Max. power voltage (Vmax) | 35.3 | 36 | 36.27 | 36.5 |
| Max. power current (Imax) | 4.96 | 5 | 5.1 | 5.2 |
| Open circuit voltage (Voc) | 44.2 | 44.8 | 45 | 45.2 |
| Short circuit voltage (Isc) | 5.2 | 5.3 | 5.5 | 5.6 |
| Operating temperature | -40°C + 85°C | | | |
| Maximum system voltage | 1000 V(IEC) | | | |
| Power tolerance (%) | 0-3% | | | |

Mechanical Characteristics

| Solar cells | Mono-crystalline |
|--------------------------------|--|
| Dimensions | 1580x808x40 mm |
| Weight | 15,5 kg |
| Transparency | 10% |
| No. Cells | 72 cells (125 x 125 mm) configured geometrically for 6x12 matrix connected in series |
| Output cables length | 900 mm |
| Cable cross section | 4 mm ² |
| Construction | High Transmission, Low Iron, 3.2 mm Tempered Glass |
| Connectors | Compatible Type IV and Type III |
| No. of draining holes in frame | 12 |

Dimensions





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 |

