

ABOUT GREALTEC

GREALTEC, with over 10 years of industry experience, has been an integral part in the development of alternative energy in Europe, bringing their knowledge, experience and management in the entire process of product design and manufacturing of solar photovoltaic systems, from standard solutions to products developed to suit the requirements of our customers.

KEY FEATURE



High module conversion efficiency, up to 16 %, through latest manufacturing technology.



Exceptional behavior under low light intensity.



Qualified and personal technical support.



Constant innovation and research.



Entire module certified to withstand snow loads (5400 Pascal) and high wind loads (2400 Pascal).

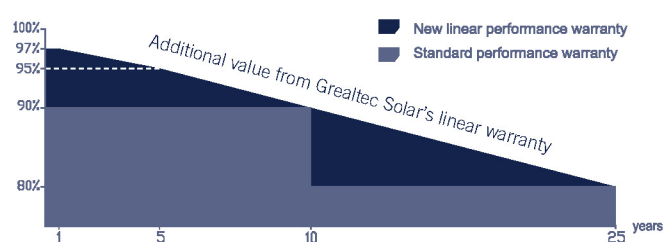
QUALITY & SAFETY

10 year warranty in material and workmanship.

Positive power tolerance 0 ~ +3%

Industry leading power output
warranty 10 years/90%-25 years/80%

Premium linear performance warranty*



RECOMMENDED APPLICATIONS



OFFGRID ROOF-TOPS

24V



SOLAR POWER PLANTS

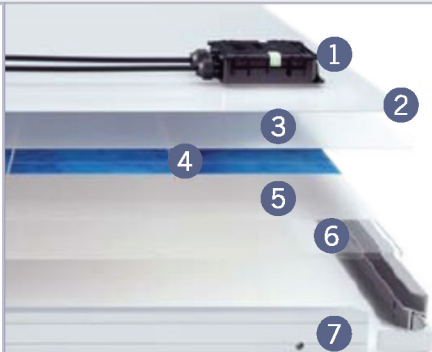
YES



OFFGRID SYSTEMS

24V

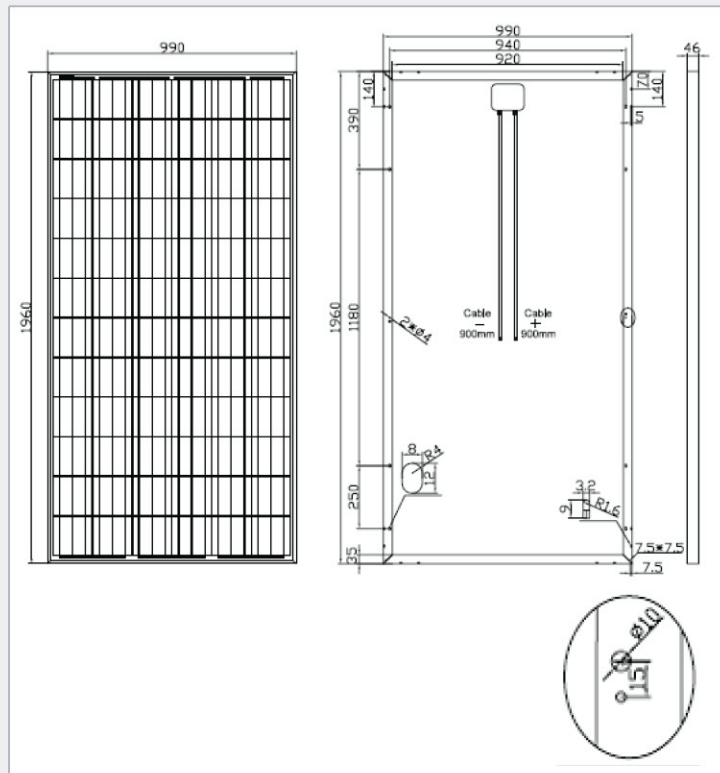
CONSTRUCTIVE CHARACTERISTICS



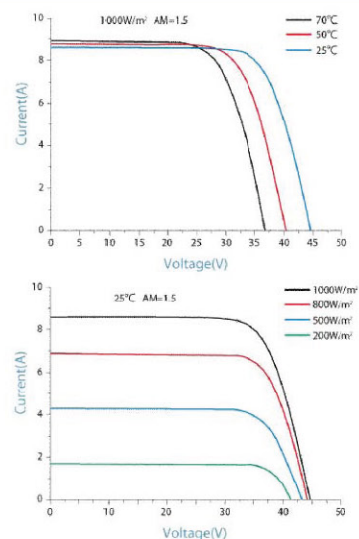
- 1 JUNCTION BOX
- 2 BACKSIDE FOIL
- 3 EVA
- 4 MULTI-CRYSTALLINE CELL
- 5 EVA
- 6 GLASS PLATE
- 7 FRAME

ENGINEERING DRAWING

Unit: mm



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



| | |
|---|------------|
| Nominal Operating Cell Temperature (NOTC) | 47°C ± 2°C |
| Temperature Coefficient of Pmax (%/°C) | -0.45 |
| Temperature Coefficient of Voc (%/°C) | -0.35 |
| Temperature Coefficient of Isc (%/°C) | 0.04 |

| ELECTRICAL DATA | | GAT 290 P | GAT 295 P | GAT 300 P |
|--------------------------|----------|-----------|-----------|-----------|
| Maximum Power at STC | (Pmax) | 290 Wp | 295 Wp | 300 Wp |
| Maximum Power Voltage | (Vmp) | 37.68 V | 37.25 V | 37.42 V |
| Maximum Power Current | (Imp) | 7.70 A | 7.92 A | 8.02 A |
| Open Circuit Voltage | (Voc) | 44.68 V | 44.40 V | 44.48 V |
| Short Circuit Current | (Isc) | 8.24 A | 8.47 A | 8.58 A |
| Module Efficiency | (%) | 14.95 % | 15.21 % | 15.46 % |
| Maximum System Voltage | (Vdc) | 1000 V | 1000 V | 1000 V |
| Positive Power Tolerance | (%/Pmax) | 0 ~ +3% | 0 ~ +3% | 0 ~ +3% |

| MECHANICAL DATA | |
|------------------|--|
| Cell Type | Poly-Crystalline 156 × 156 mm |
| Cell Arrangement | 72 (6 × 12) |
| Dimensions (mm) | 1960 × 990 × 46 mm |
| Weight (kg) | 26.00 kg |
| Front Glass (mm) | Tempering Glass 3.2 mm (Optional 4 mm) |
| Frame Material | Anodized aluminum 46 mm thickness |
| Junction Box | IP65; 3 diodes |
| Output Cable | Legth 900 mm (other length optional) / Section 4 mm² |
| Connector Type | MC4 Compatible |

| PACKAGING SPECIFICATIONS |
|----------------------------------|
| Packaging for installers: |
| 17-32 modules per carton box |
| 43 modules per pallet |
| 244 modules in a 20'GP container |
| 494 modules in a 40'GP container |

STC



IRRADIANCE 1000W/M2



MODULE TEMPERATURE 25°C



AM=1.5



Read the instruction manual in its entirety before handling, installing, and operating Grealtec solar modules. Due to continuous innovation, research and product improvement, technical datasheet are subject to change without prior notice.

Grealtec reserves the final right for explanation on any of the information presented hereby.