

**For a Free Quote:**

Web: **EnergyPal.com/solar**

Call: **1-800-990-3725**

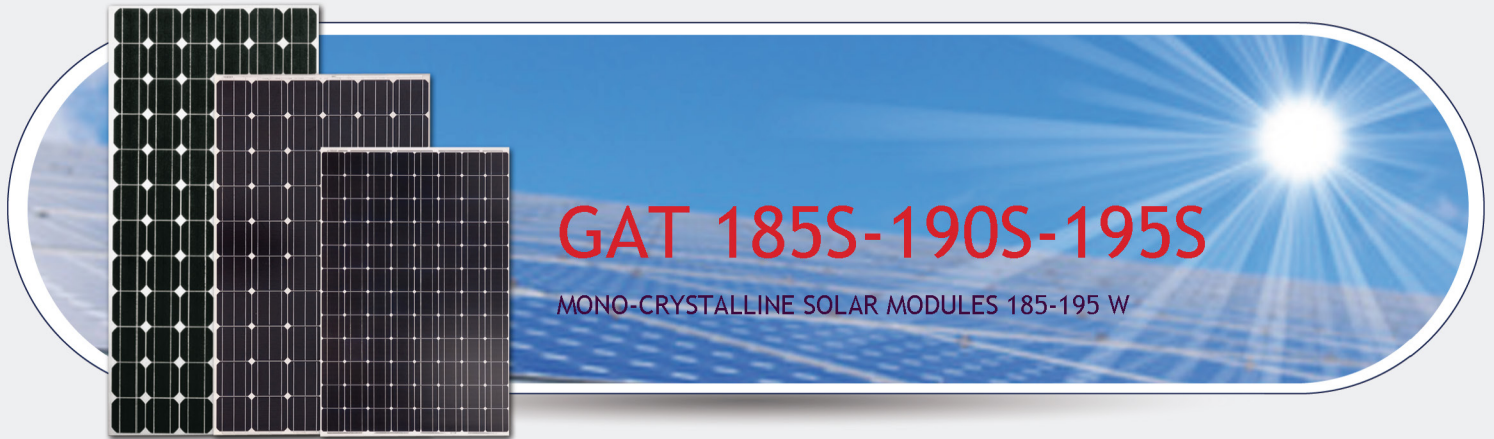
Email: **contact@energypal.com**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Grealtec  
GAT185-195S  
GAT 185 S**






Also available on the web at  
[EnergyPal.com/grealtec-solar-panels/gat-185-s](http://EnergyPal.com/grealtec-solar-panels/gat-185-s)



### 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.

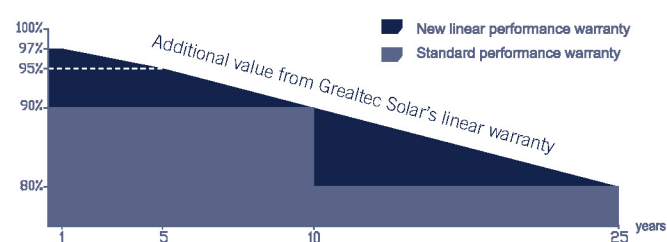
### KEY FEATURE

-  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%

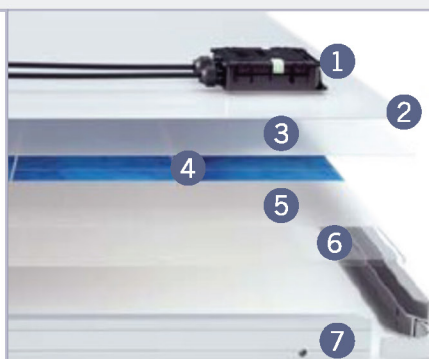
#### Premium linear performance warranty\*



### RECOMMENDED APPLICATIONS

-  OFFGRID ROOF-TOPS **24V**
-  SOLAR POWER PLANTS **YES**
-  OFFGRID SYSTEMS **24V**

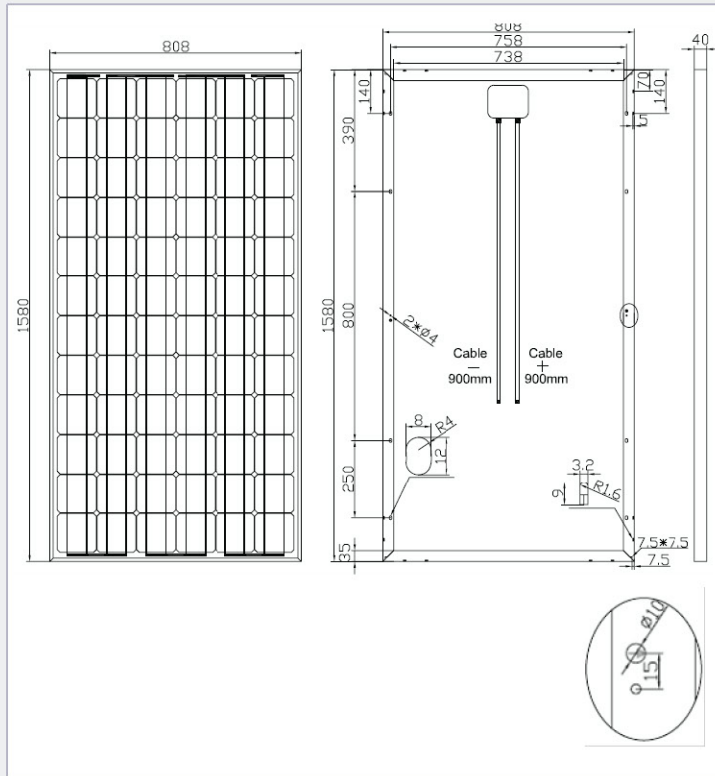
### CONSTRUCTIVE CHARACTERISTICS



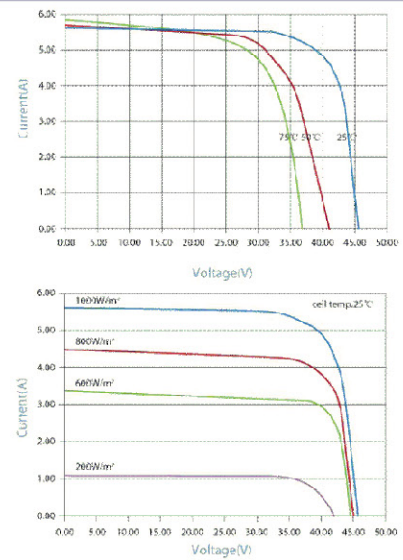
- 1 JUNCTION BOX
- 2 BACKSIDE FOIL
- 3 EVA
- 4 MULTI-CRYSTALLINE CELL
- 5 EVA
- 6 GLASS PLATE
- 7 FRAME

# 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 185 S	GAT 190 S	GAT 195 S
Maximum Power at STC	(Pmax)	185 Wp	190 Wp	195 Wp
Maximum Power Voltage	(Vmp)	38.02 V	38.16 V	38.43 V
Maximum Power Current	(Imp)	4.87 A	4.98 A	5.09 A
Open Circuit Voltage	(Voc)	45.00 V	44.93 V	45.00 V
Short Circuit Current	(Isc)	5.21 A	5.33 A	5.45 A
Module Efficiency	(%)	14.45 %	14.84 %	15.23 %
Maximum System Voltage	(Vdc)	1000 V	1000 V	1000 V
Positive Power Tolerance	(%/Pmax)	0 ~ +3%	0 ~ +3%	0 ~ +3%

MECHANICAL DATA	
Cell Type	Mono-Crystalline 125 × 125 mm
Cell Arrangement	72 (6 × 12)
Dimensions (mm)	1580 × 808 × 40 mm
Weight (kg)	15.00 kg
Front Glass (mm)	Tempering Glass 3.2mm (Optional 4 mm)
Frame Material	Anodized aluminum 40 mm thickness
Junction Box	IP65; 3 diodes
Output Cable	Legth 900 mm (other length optional) / Section 4 mm <sup>2</sup>
Connector Type	MC4 Compatible

PACKAGING SPECIFICATIONS
Packaging for installers:
17-32 modules per carton box
62 modules per pallet
426 modules in a 20'GP container
868 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.