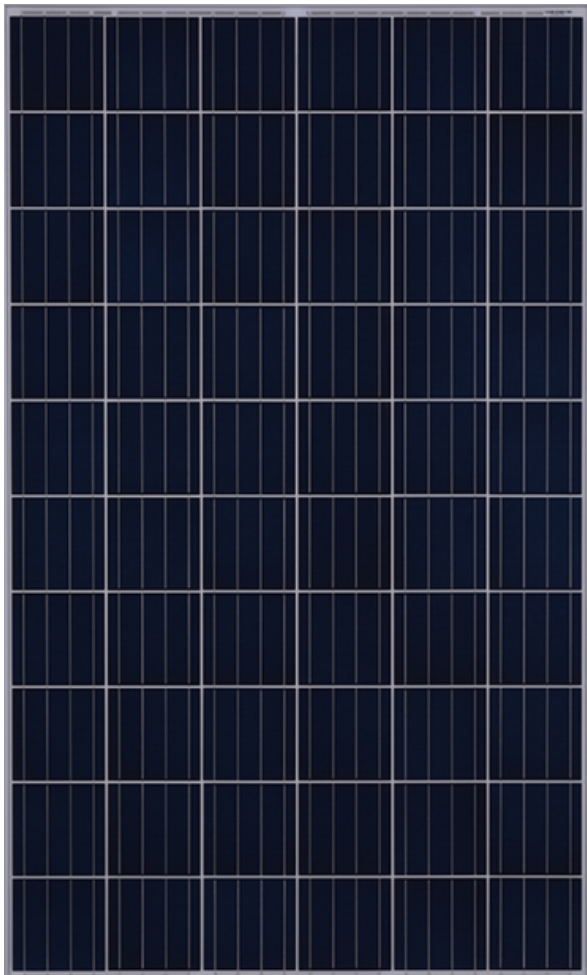


# SOLAR MODULES

## SunBeam II POLYCRYSTALLINE MODULE.

GStech60-6-260-280Wp-HPP-S-10.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY



### Key features:



5 BUS BAR

#### 5 BUS BAR SOLAR CELL

5 bus bar solar cell adopts new technology to improve the efficiency of modules and offers a better aesthetic appearance, making it perfect for ground and rooftop iGStechallation.



Less maintenance

#### HIGH EFFICIENCY

High module conversion efficiency up to 17.10%, through innovative manufacturing technology.



Low Light

#### LOW-LIGHT PERFORMANCE

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



2400 Pa | 5400 Pa

#### SEVERE WEATHER RESILIENCE

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Resistant

#### DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS

High salt mist and ammonia resistance certified by KIWA.



25 Years

#### 25-YEARS LINEAR PERFORMANCE WARRANTY

12-years limited warranty for materials and workmanship. GStech guarantees that each module shall deliver the following minimum output as shown in the datasheet for.

# SunBeam II

## POLYCRYSTALLINE GLASS / GLASS MODULE.

GStech60-6-260-280Wp-HPP-GG-10.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY

### PHYSICAL PARAMETERS

|                    |  |
|--------------------|--|
| Solar cell         | Polycrystalline 156.75 X 156.75 mm                       |
| Cell configuration | 60 cell (10 x 6)   |
| Module dimension   | 1670 x 1000 x 35 mm                                      |
| Weight             | 17 kg  |
| Superstrate        | 3.2 mm, high transmission, low iron, tempered ARC glass  |
| Substrate          | White backsheet  |
| Frame              | Silver anodized aluminum alloy type 6063T5, silver color |
| J-Box              | IP67, 1000VDC, 3 bypass diodes                           |
| Cables             | 4.0 sqmm (12AWG), 1000 mm length (customer demand)       |
| Connector          | IP67 MC4 or its compatible                               |

### ELECTRICAL PARAMETERS (STC)

| TYPE                            | GStech60-6-260P | GStech60-6-265P | GStech60-6-270P | GStech60-6-275P | GStech60-6-280P |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Rated maximum power at STC (Wp) | 260             | 265             | 270             | 275             | 280             |
| Open circuit voltage Voc (V)    | 37.9            | 38.1            | 38.3            | 38.5            | 38.7            |
| Maximum power voltage Vmpp (V)  | 30.9            | 31.0            | 31.1            | 31.2            | 31.3            |
| Short circuit current Isc (A)   | 8.92            | 9.01            | 9.10            | 9.19            | 9.28            |
| Maximum power current Imp (A)   | 8.42            | 8.55            | 8.69            | 8.82            | 8.95            |
| Module efficiency (%)           | 15.88           | 16.19           | 16.50           | 16.80           | 17.10           |

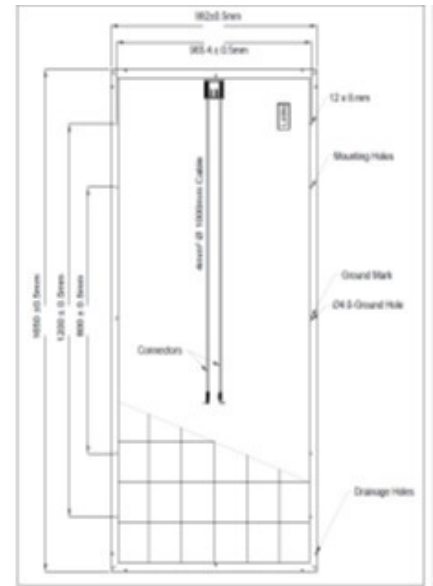
STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, air mass 1.5

### ELECTRICAL PARAMETERS (NOCT)

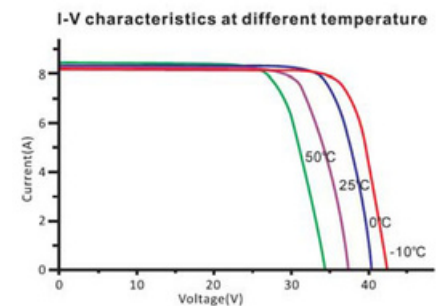
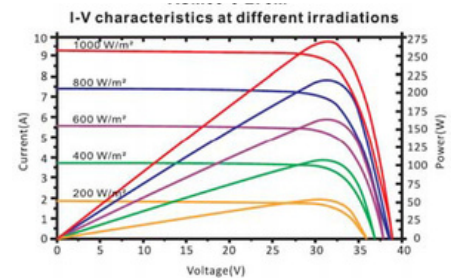
| TYPE                            | GStech60-6-260P | GStech60-6-265P | GStech60-6-270P | GStech60-6-275P | GStech60-6-280P |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Max power (Pmax) [W]            | 193             | 195             | 198             | 201             | 204             |
| Open circuit voltage (Voc) [V]  | 35.2            | 35.3            | 35.4            | 35.5            | 35.6            |
| Max power voltage (Vmp) [V]     | 27.9            | 28.0            | 28.1            | 28.2            | 28.3            |
| Short circuit current (Isc) [A] | 7.25            | 7.38            | 7.50            | 7.62            | 7.74            |
| Max power current (Imp) [A]     | 6.92            | 6.97            | 7.05            | 7.13            | 7.21            |

NOCT: Under normal operating cell temperature, irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s

### DIMENSION OF PV MODULE UNIT



### I-V CURVE



German Solar Technology (GStech)®

## SunBeam II

### POLYCRYSTALLINE GLASS / GLASS MODULE.

GStech60-6-260-280Wp-HPP-GG-10.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY

#### TEMPERATURE COEFFICIENT AND PARAMETERS

|   |                |
|---|----------------|
| Nominal operating cell temperature (NOCT) | 45°C ± 2°C     |
| Temperature coefficient of Pmax           | -0.385%/°C     |
| Temperature coefficient of Voc            | -0.32%/°C      |
| Temperature coefficient of Isc            | 0.055%/°C      |
| Operating temperature                     | -45°C~+85°C    |
| Maximum system voltage                    | 1000VDC        |
| Limiting reverse current                  | 15A            |
| Maximum series fuse rating                | 15A            |
| Power tolerance (W)                       | 0/+3%          |
| Application class                         | Class A        |
| Wind and snow front load                  | Up to 5,400 Pa |
| Wind back load                            | 2,400 Pa       |

#### PACKAGING CONFIGURATION

|                                 | 40ft               | 20ft               |
|---------------------------------|--------------------|--------------------|
| Number of modules per container | 840                | 360                |
| Number of modules per pallet    | 30                 | 30                 |
| Number of pallets per container | 28                 | 12                 |
| Box dimension (L x W x H) in mm | 1680 x 1090 x 1120 | 1680 x 1090 x 1120 |
| Box gross weight (Kg)           | 580                | 580                |

