

## BENEFITS

### Reliable and Robust Design

Proven materials, tempered front glass, and a sturdy anodized frame allow panels to operate reliably in multiple mounting configurations.

### Classic Design

Combines high efficiency and attractive crystalline cells give an elegant appearance.

### More Power

Using industry leading 17.0% efficiency solar cells delivers incredible performance.



(10WP Panel shown)

## Mono & Poly-Crystalline (12 volt) Silicone Solar Cell Modules

### 5WP – 150WP

#### Features

- Modules are designed in accordance with IEC61215:1993 standards, manufactured with proven materials and tested to ensure electrical performance and service life.
- SiN film deposited on the front surface by PECVD acts as anti-reflection coating and gives a uniform dark blue appearance.
- Cells are laminated between highly transparent low-iron 3mm tempered glass, TPT and two layers of EVA to prevent moisture penetrating the module.
- Heavy duty anodized aluminium frame provides high wind resistance and convenient mounting access.
- Waterproof junction box and terminals allows for quick and simple connection.
- Modules will either be supplied with no cable, cable supplied but not connected to the junction box or fully fitted – depending on the option selected. Supplied cables guarantee excellent power transmission throughout the year.
- There is no current requirement for the STI Solar Modules to comply with ROHS.
- 20 year power output transferable warranty.

### PV MODULES MADE WITH IEC 61215 CERTIFICATION

| Model   | Output Wp | Size mm         | Weight Kgm | Pmax W | Vmp V | Imp A | Voc V | Isc A |
|---------|-----------|-----------------|------------|--------|-------|-------|-------|-------|
| STP005P | 5         | 250 x 200 x 25  | 0.7        | 5      | 16.8  | 0.3   | 21    | 0.39  |
| STP010P | 10        | 397 x 280 x 25  | 1.3        | 10     | 16.8  | 0.59  | 21    | 0.66  |
| STP020P | 20        | 540 x 278 x 25  | 1.7        | 20     | 17.5  | 1.15  | 22    | 1.27  |
| STP030P | 30        | 660 x 380 x 25  | 2.7        | 30     | 17.5  | 1.72  | 22    | 1.90  |
| STP045P | 45        | 634 x 535 x 25  | 3.6        | 45     | 17.5  | 2.58  | 22    | 2.86  |
| STP060P | 60        | 670 x 640 x 35  | 4.5        | 60     | 17.2  | 3.49  | 21.6  | 3.97  |
| STP080P | 80        | 835 x 670 x 35  | 6.7        | 80     | 17.2  | 4.65  | 21.6  | 5.00  |
| STP100P | 100       | 1005 x 670 x 35 | 7.8        | 100    | 19.55 | 5.12  | 23.15 | 5.45  |
| STP120P | 120       | 1195 x 670 x 35 | 9.2        | 120    | 17.2  | 6.98  | 21.6  | 7.93  |
| STP150P | 150       | 1475 x 670 x 35 | 11.1       | 150    | 17.2  | 8.72  | 21.6  | 9.72  |
| STP200P | 200       | 1850 x 670 x 40 | 14.8       | 200    | 17.5  | 10.5  | 22    | 11.45 |

### ABSOLUTE MAXIMUM LIMITS

| PARAMETERS                   | RATING     | UNIT |
|------------------------------|------------|------|
| Operating temperature        | -40 to +85 | °C   |
| Storage temperature          | -40 to +85 | °C   |
| Dielectric voltage withstood | 3000max    | V-DC |
| NOCT                         | 48         | °C   |

### TEMPERATURE COEFFICIENTS

|                                 |         |            |
|---------------------------------|---------|------------|
| Current temperature coefficient | dIsc/dT | +0.003A/K  |
| Voltage temperature coefficient | dVoc/dT | - 0.13V/K  |
| Power temperature coefficient   | dPm/dT  | - 0.675W/K |

### CERTIFICATIONS

|                                     |                    |
|-------------------------------------|--------------------|
| ISO9001 (2008)                      | 1014QMO5           |
| TUV / IEC61215                      | PV60040905         |
| IEC61710 (Salt Mist Corrosion Test) | 4786191107-NABL-S1 |
| CE                                  | G4M20301-0199-E-16 |

### MATERIALS

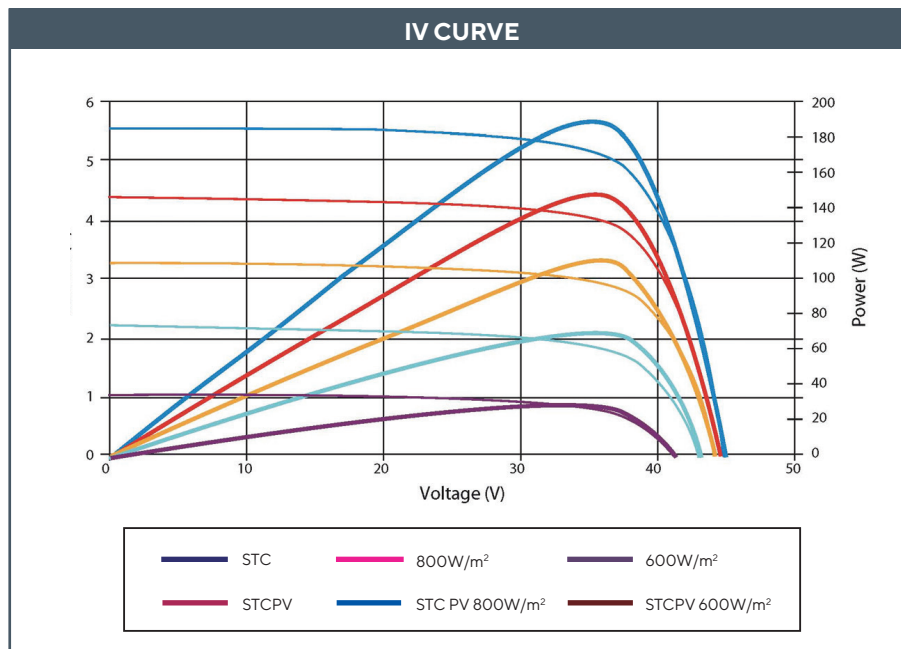
|             |                         |
|-------------|-------------------------|
| Frame       | Aluminium 6063 T5       |
| Front Cover | High-transmission Glass |

### WARRANTY

All Solar Technology International solar modules are supplied with a 20 year limited peak power warranty. The warranty claim will be deemed to be valid if within 20 years any solar module exhibits power output at less than 80% of minimum 'Peak Power Standard Test Conditions' as noted on the data plate of each module and/or any fault is determined to be the cause of defects in materials and workmanship but not where interference with the module/s by an unauthorised person (of Solar Technology International) has caused the fault or defect. Solar Technology International may, at its discretion offer one of the following remedies in the event of a successful claim against the module performance warranty:

- 1) to replace the defective module/s
- 2) refund the percentage of the cost of the module to the customer representing the percentage of the power output less than 80% of the minimum. Solar Technology International endeavours to but is not bound by its commitment to rectify any fault within 7 days of notification.

### IV CURVE



ALL FIGURES TAKEN UNDER THE FOLLOWING STANDARD TEST CONDITIONS: IRRADIANCE 1000W/M<sup>2</sup>, MODULE TEMPERATURE 25°C, AM=1.5

(All technical data subject to changes without prior notice)

