

## Product Description:

The ST70G is a high quality mono-crystalline silicon cell module. It has toughened low iron glass and a tri-wall backing sheet for total environmental protection. Framed in an anodised aluminium extrusion for ease of mounting and durability.

### Quality and Safety:

TUV Approved to IEC 61215 Ed 2 & IEC61730

ISO 9000 Certified Factory

### Limited Warranties:

Freedom from defects in materials and workmanship for 5 years.

Minimum 80% output in 20 years.

### Weight:

6.7 KG

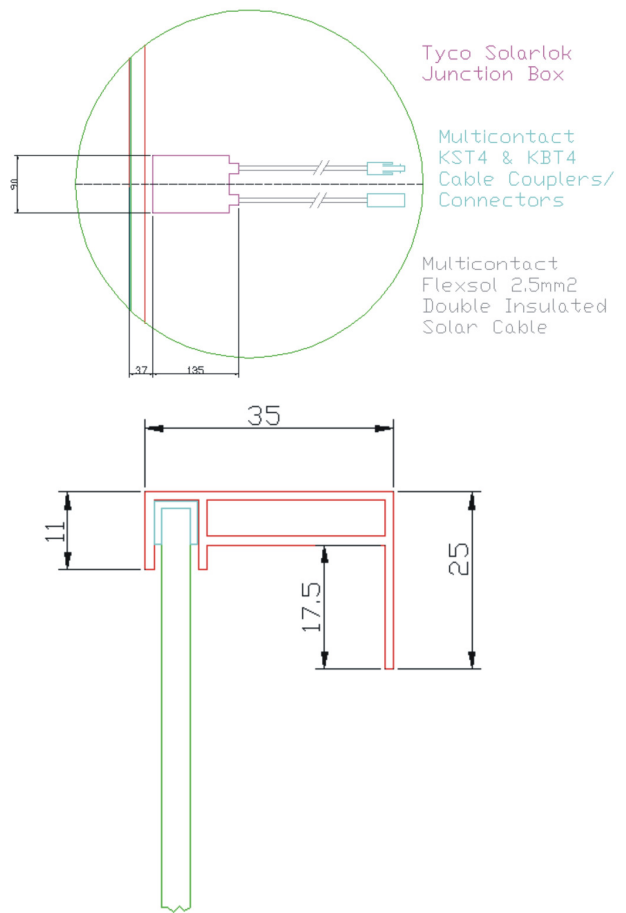
### Cell Specification:

36 x 1/2 of monocrystalline 156 x 156 mm mono-crystalline silicon cells

### Overall Mechanical Data:

Length: 764 mm  
 Width: 654 mm  
 Depth: 42 mm  
 Connection: 1 junction box with bypass diodes  
 Cable: MC cable 500 mm  
 Front glass: Low iron (optiwhite) glass 4 mm thick.  
 Cells: 36 x 1/2 of monocrystalline 156 x 156 mm  
 Encapsulation: EVA (Ethylene Vinyl Acetate)  
 Backing: Tri-Wall Tedlar foil

### Terminal Box & Frame Detail:



**Typical Electrical Characteristics at STC (1000W/M<sup>2</sup>, 25°C & AM 1.5 ):**

Maximum Power (P <sub>max</sub> ) – Nominal	70 W
Voltage at Pmax (V <sub>mp</sub> )	18.4 V
Current at Pmax (I <sub>mp</sub> )	3.75 A
Short circuit current (I <sub>sc</sub> )	4.1 A
Open-circuit voltage (V <sub>oc</sub> )	22.0 V

Production Tolerance For Above Values + or - 5%

Reduction of efficiency from 1000w/m2 to 200w/m2:	93.6% of STC Values
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Maximum System Voltage:	600V
Temperature Coefficient of Power:	-0.43 %/K
Temperature Coefficient of Voltage:	- 2.12 mV/K
Temperature Coefficient of Current:	+ 2.50 mA/K

**Allowable operating conditions**

Maximum temperature range: -40°C to +85°C

Hail: up to 28mm diameter and 86 km/h impact speed

Surface maximum load capacity: evenly up to 240 kg/m<sup>2</sup>.

*Products are under continuous development and may be subject to change*

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