

Product Description:

The ST80G 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:

6.5 KG

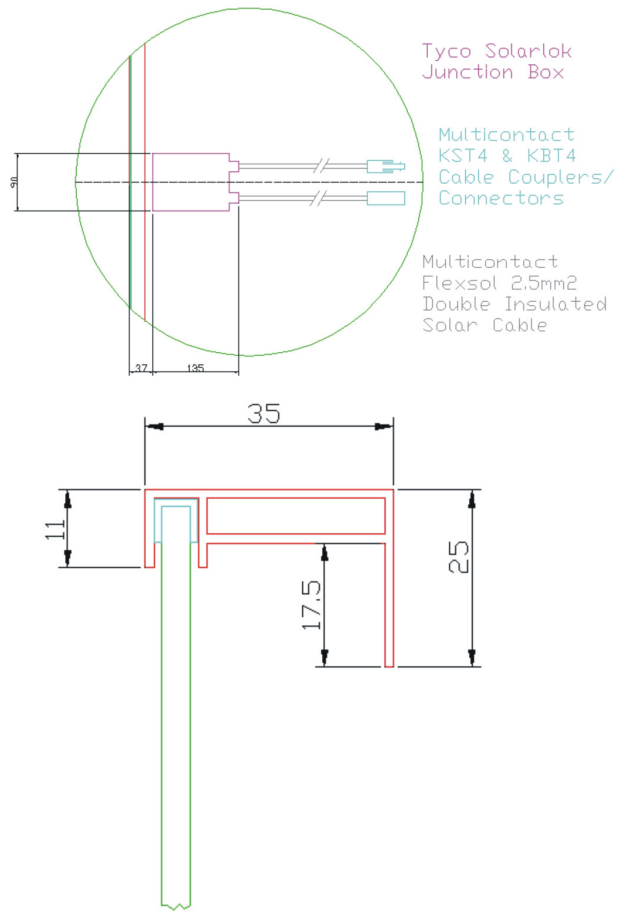
Cell Specification:

36 series connected monocrystalline 125 mm mono-crystalline pseudo silicon cells

Overall Mechanical Data:

Length: 1200 mm
Width: 535 mm
Depth: 42 mm
Connection: 1 junction box with bypass diodes
Cable: MC cable 500 mm
Front glass: Low iron (optiwhite) glass 4 mm
Cells: 36 series 125mm connected monocrystalline pseudo silicon cells
Encapsulation: EVA (Ethylene Vinyl Acetate)
Backing: Tri-Wall Tedlar foil
 Dimension of laminate without frame:

Terminal Box & Frame Detail:



Typical Electrical Characteristics at STC (1000W/M², 25°C & AM 1.5):

Maximum Power (P _{max}) – Nominal	80 W
Voltage at Pmax (V _{mp})	17.57 V
Current at Pmax (I _{mp})	4.59 A
Short circuit current (I _{sc})	4.71 A
Open-circuit voltage (V _{oc})	22.13 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/m².

Products are under continuous development and may be subject to change

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