

Shell Solar

Product Information Sheet

Shell SQ75 Photovoltaic Solar Module

General

The Shell SQ75 module contains 36 series connected 125 x 125 mm PowerMax® mono-crystalline silicon solar cells.

The Shell SQ75 can generate a peak power of 75 watts at 17 volts.

The Shell SQ75 solar module has been designed for grid connected and industrial applications.

Qualifications and Certificates

The Shell SQ75 solar module meets the following requirements:

- IEC 61215 (Pending)
- UL - Listing 1703
- FM approved
- TÜV Safety Class II (Pending)



All Shell Solar modules are produced in EN-ISO 9001 certified factories.

Limited Warranties

- Peak Power for 25 years*

*See Shell Solar Limited Warranty for PV-Modules

Shell SQ75 Module



Junction Box

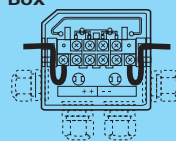
The junction box provides a high quality, dust protected and splash proof IP54-rated housing. The housing contains a rigid connection block with screw terminals and by-pass diodes providing "hot spot" protection for the solar cells.

ProCharger™ – CR Junction Box

Maximum conductor cross-section: 4 mm²

Type of protection: IP54

Number of by-pass diodes: 2



Benefits

- PowerMax® mono-crystalline solar cells deliver maximum power output even under reduced light conditions.
- Dense packing of cells provides more power where space is a limitation and creates a uniform aesthetic.
- Ideal for large grid connected systems where high power density minimizes system costs.
- Tight electrical specifications guarantee industry leading energy yield performance.
- Highly transparent tempered glass delivers more power and ensures high impact resistance and protection against hail, snow, ice, and storms.
- Over 300MW of cumulative installed experience has been applied to the evolution of our mono-crystalline range to ensure that our products have a long and reliable service life backed by a 25 year warranty.



**ELECTRICAL EQUIPMENT,
CHECK WITH YOUR INSTALLER**

Due to continuous research and product improvement the specifications in this Product Information Sheet are subject to change without notice. Specifications can vary slightly. For installation and operation instructions, see the applicable manuals. No rights can be derived from this Product Information Sheet and Shell Solar assumes no liability whatsoever connected to or resulting from the use of any information contained herein.



Mechanical Specifications Module

A torsion and corrosion-resistant anodized aluminium frame ensures dependable performance, even under harsh weather conditions. Pre-drilled mounting holes are provided for ease of installation.

| | |
|------------------------------------|-------------|
| Outside dimensions (in) | 47.2 x 20.8 |
| Thickness (inc. junction box) (in) | 2.2 |
| Thickness (exc. junction box) (in) | 1.3 |
| Weight (lbs) | 16.7 |

For installation instructions, please refer to the **Installation Manual** which is available from Shell Solar.

Electrical Characteristics

Data at Standard Test Conditions (STC)

STC: irradiance level 1000W/m², spectrum AM 1.5 and cell temperature 25°C

| | | |
|-----------------------|----------------|--------------|
| Rated power | P_r | 75W |
| Peak power | P_{mpp} | 75W |
| Peak power voltage | V_{mpp} | 8.5*/17V |
| Peak power current | I_{mpp} | 8.8*/4.4A |
| Open circuit voltage | V_{oc} | 10.85*/21.7V |
| Short circuit current | I_{sc} | 9.6*/4.8A |
| Series fuse rating | | 15A |
| Minimum peak power | $P_{mpp\ min}$ | 70W |

The abbreviation 'mpp' stands for Maximum Power Point.

Typical data at Nominal Operating Cell Temperature (NOCT) conditions

NOCT: 800W/m² irradiance level, AM 1.5 spectrum, wind velocity 1m/s, T_{amb} 20°C

| | | |
|-----------------------|------------|-------|
| Temperature | T_{NOCT} | 46°C |
| Mpp power | P_{mpp} | 54W |
| Mpp voltage | V_{mpp} | 15.4V |
| Open circuit voltage | V_{oc} | 19.9V |
| Short circuit current | I_{sc} | 3.9A |

* The Shell SQ75 may be reconfigured in the field for 6V operation **75W**

