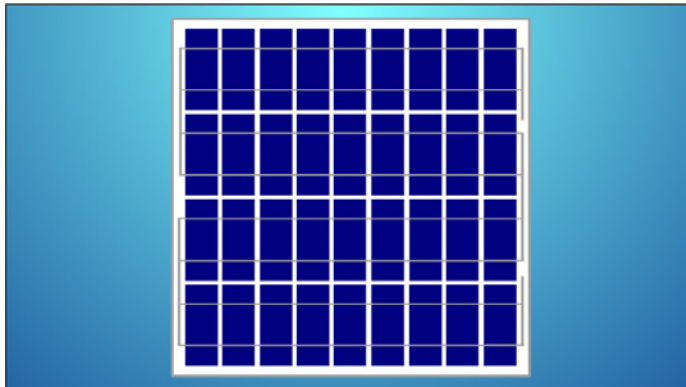


# Technical Description



## Photovoltaic Module NG 55 TP2 SAW



**36 polycrystalline Si solar cells**

**Main application: general off-grid PV systems**

### Module Electrical Performance under Standard Test Conditions

*Refers to standard test conditions of 1000 Wm<sup>-2</sup> solar irradiance, 25°C cell temperature, Air Mass 1.5.*

*Note: Maximum power point is subject to +10%/-5% variation. All other values are typical and for guidance only.*

Maximum Power Point: 55 Watts, 3.01 Amps at 18.3 Volts.

Short Circuit: 3.19 Amps. Open circuit: 22.5 Volts.

### Dimensions and Weight

*all dimensions +/- 2mm, weight approximately +/-0.3kg*

Length: 610mm. Width: 670mm. Thickness at edge: 34mm. Weight: 4.7kg

### Construction

Top cover material: low iron tempered glass 3mm

Rear cover material: Tedlar-Polyester-Tedlar white

Encapsulant (lamination material): EVA

Frame: anodised aluminium

2 factory-fitted bypass diodes

1 junction box type S1410-2

2 x 4mm earthing holes in frame

### Integral mounting holes

Along length: 305/568mm centre to centre, 152.5/21mm centre to module edge.

8 holes, size 7mm.

Across width: 628/334mm centre to centre, 21/168mm centre to module edge.

### Cell circuit

Cut from full size cells into 29/78 of a cell

Cell dimensions: Length (tab direction) 58mm. Width: 156mm.

Electrical circuit: 36 cells in series

Cell layout: 4 rows, each row is 9 cells long.

### Normal Operating Cell Temperature (NOCT)

47°C

*error in measurement around +/- 2°C*

*Cell temperature at 800Wm<sup>-2</sup> solar irradiance, 20°C ambient temperature, wind speed <=1ms<sup>-1</sup>, free air access to rear.*

### Efficiencies based on Standard Test Conditions Rating

Module: 13.5%

Laminated area: 13.7%

Cells alone: 16.3%

*Note: Standard Test Conditions efficiency figures should only be used to compare one module with another. These efficiency figures do not apply to actual field performance, for which a careful analysis of operating conditions is necessary to determine the effects of module temperature and other factors.*

*Specifications may change due to Naps policy of continuous product improvement.*

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*Please check current specification before purchasing.*

*Information last updated:*

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