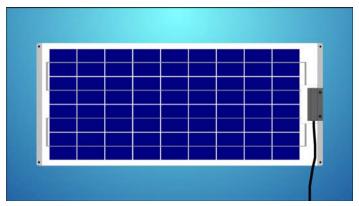
## **Technical Description**



**Photovoltaic Module NP33RSS** 

**Product Code: 16133** 



36 polycrystalline Si solar cells

Main application: boat deck 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: 33 Watts, 1.88 Amps at 17.6 Volts.

Short Circuit: 2.06 Amps. Open circuit: 21.9 Volts.

Dimensions and Weight all dimensions +/- 2mm, weight approximately +/-0.3kg Length: 832mm. Width: 357mm. Thickness at edge: 3.67mm. Weight: 4.3kg

Construction

Top cover material: Tefzel Rear cover material: St.Steel1.5mm

Encapsulant (lamination material): EVA Frame: no

2 factory-fitted bypass diodes 1 junction box type hat

cable 2m

**Integral mounting holes** Along length: 818mm centre to centre, 7mm centre to module edge. 4 holes, size 5.5mm. Across width: 337mm centre to centre, 10mm centre to module edge.

Cell circuit Cut from full size cells into quarter of a cell

Cell dimensions: Length (tab direction) 78mm. Width: 78mm.

Electrical circuit: 36 cells in series

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

## **Normal Operating Cell Temperature (NOCT)**

45°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: 11.1% Laminated area: 11.5% Cells alone: 15.1% 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.

Please check current specification before purchasing.

Information last updated: 26-Nov-10