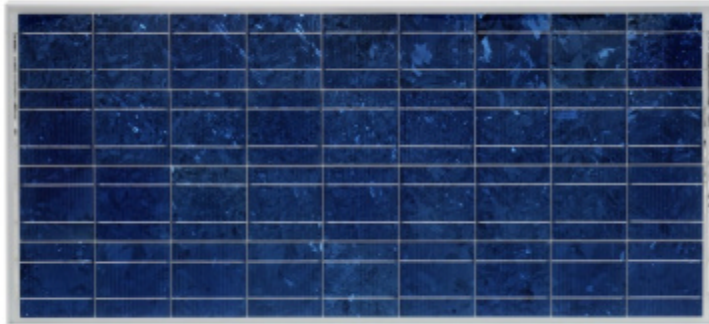


Technical Description



Photovoltaic Module NP125GK

Product Code: 13125



36 polycrystalline Si solar cells

Main application: general purpose PV use

Module Electrical Performance under Standard Test Conditions

Refers to standard test conditions of 1000 Wm^{-2} solar irradiance, 25°C cell temperature, Air Mass 1.5.

Note: Maximum power point is subject to $\pm 5\%$ variation. All other values are typical and for guidance only.

Maximum Power Point: 125 Watts, 7.30 Amps at 17.1 Volts.

Short Circuit: 7.90 Amps. Open circuit: 21.9 Volts.

Dimensions and Weight

all dimensions $\pm 2\text{mm}$, weight approximately $\pm 0.1\text{kg}$

Length: 1480mm. Width: 670mm. Thickness at edge: 34mm. Weight: 10.6kg

Construction

Top cover material: low iron tempered glass 3mm

Encapsulant (lamination material): EVA / glass fibre

2 factory-fitted bypass diodes

2 x 4mm earthing holes in frame

Rear cover material: Tedlar-Polyester-Tedlar white

Frame: anodised aluminium

1 junction box type S

Integral mounting holes

4 holes, size 7mm.

Along length: 740mm centre to centre, 370mm centre to module edge.

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

Cell circuit

Cell dimensions: Length (tab direction) 156mm. 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 $\pm 2^\circ\text{C}$

Cell temperature at 800 Wm^{-2} solar irradiance, 20°C ambient temperature, wind speed $\leq 1 \text{ ms}^{-1}$, free air access to rear.

Efficiencies based on Standard Test Conditions Rating

Module: 12.6%

Laminated area: 12.7%

Cells alone: 14.3%

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.

Please check current specification before purchasing.

Information last updated: 11-Feb-05