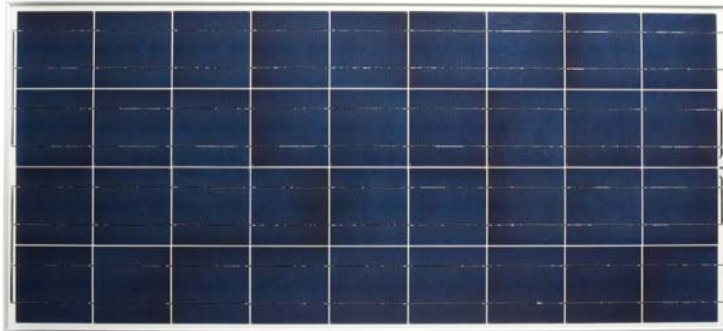


Technical Description



Photovoltaic Module NP125GK Product Code: 13125



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⁻² solar irradiance, 25°C cell temperature, Air Mass 1.5.
Note: Maximum power point is subject to +5W/-0W variation. All other values are typical and for guidance only.
Maximum Power Point: 125 Watts, 7.52 Amps at 16.6 Volts.
Short Circuit: 8.40 Amps. Open circuit: 21.8 Volts.

Dimensions and Weight

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

Length: 1480mm. Width: 670mm. Thickness at edge: 34mm. Weight: 10.5kg

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: 740/1438mm centre to centre, 370/21mm centre to module edge.
8 holes, size 7mm. Across width: 628/334mm centre to centre, 21/168mm 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 +/- 2°C*
Cell temperature at 800Wm⁻² solar irradiance, 20°C ambient temperature, wind speed <=1ms⁻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: 26-Nov-10*