

# 40W - Polycrystalline Module

## Module characteristics

- 36 polycrystalline silicon solar cells (156mm x 52mm) which are connected in series and capable of charging 12V batteries
- 1 bypass diode is installed to avoid 'hot spot' effect
- Heavy duty anodised aluminium frame provides high wind resistance and convenient mounting access
- Cells are laminated between high transmissivity, low iron, 3mm tempered glass and a sheet of TPT material and finally two sheets of EVA to prevent moisture entering the module
- Installation holes for standard bracket systems are provided
- Waterproof versatile junction box provides flexibility of connections
- Modules are manufactured in accordance with IEC 61215, and come with 25 years limited output warranty

## Electrical characteristics

Typical maximum power (Wp)	40
Open circuit voltage (Voc)	22.0
Optimum operating voltage (Vmp)	17.5
Optimum operating current (Imp)	2.30
Short circuit current (Isc)	2.50

## Standard parameters

Information below represents the output of typical modules in 12V configuration. \*This data is based on measurements made in accordance with Standard Test Conditions (STC) 1000W/m<sup>2</sup>, AM 1.5, cell temperature 25°C

Normal temperature	46±2°C
Current temperature coefficient (Isc)	+0.10%/°C
Voltage temperature coefficient (Voc)	-0.38%/°C
Power temperature coefficient (Wp)	+0.47%/°C
Edge grounding	≤1ohm
Wind resistance	2400Pa
Maximum system voltage	1000V

## Mechanical characteristics

Weight	4.3 kg
Size of module (mm)	660 x 540 x 25

