Solarcase provides a stylish, practical and efficient way to display information throughout the day and night.

They have the same interactive features as the solarpost, so people are aware of their existence from a distance at night and are able to read the information displayed easily when they approach and the illumination intensity increases.

The solarcase has a wide variety of applications and is particularly useful in rural locations where conventional street lighting and mains electric supply does not exist or would be prohibitively expensive to install.
**SOLARCASE TECHNICAL SPECIFICATION**

**KEY FEATURES**

- Zero energy costs
- Solar energy harvested from 12 vertical faces totalling 300,000 mm²
- Ni-Mh batteries, 10 yr life -40°C to +85°C
- LED high performance white LED strip lighting
- 14 Days autonomy (without daylight)
- Battery disabled during transit or in stock
- PIR sensors trigger LED bright-up on approach
- Guaranteed to light from dusk to midnight

**SOLARCASE CONTROL SYSTEM**

The Solarcase control system uses a four channel dynamic boost algorithm to maximise the power generated from each individual solar panel. During the day the light tracks across the Solarcase, illuminating and shading the panels. To capture energy efficiently from direct and indirect sunlight, the optimum power point of the panels is calculated in real time and the charge taken from the panels is adjusted, harvesting the maximum power from each panel.

The batteries are charged throughout the day from the energy harvested from the solar panels. The Solarcase control system has battery management technology which mitigates full discharge by reducing the LED brightness until there is sufficient ambient light to charge. To maintain battery levels during transportation the battery can be disabled by briefly placing a magnet against the Solarcase, once installed the magnet is used again to activate ready for use. The advanced battery technology offers an exceptional temperature range & improved solar charging tolerance. The Solarcase control unit is fully sealed and uses IPX7 connectors.

**SOLAR PANELS SPECIFICATION**

- Power: 51.60 watts (12 x 4.3w panels)
- Material: Polycrystalline Silicon
- Construction: Photovoltaic cells sealed behind UV stabilised tempered glass.
- Total Area: 300,000 mm²

**BATTERY SPECIFICATION**

- Type: Ni-MH batteries
- Capacity: 2 x 6.4v 10ah
- Lifetime: 10 years at 20°C
- Operating Temperature: -40°C to +85°C
- Transportation: Meets all requirements of the International Air Transport Association (I.A.T.A Dangerous Goods Regulations).
- Low maintenance
- Excellent recovery from deep discharge.
- Conforms to BS EN61056-1 and IEC1056-1 regulations.

**LIGHT EMITTING DIODE (LED) SPECIFICATION**

- LED light strip housed in aluminium extrusion complete with lens and end caps
- Illumination - CRI LED’s
- LED colour temperature - 12v (4100k)
**PIR SENSORS SPECIFICATION**

- **Type:** Passive infrared sensor
- **Range:** up to 5 metres
- **Detection Angle:** 120°

**POST SPECIFICATION**

- **Cap and lid** Die-cast aluminium, to BS EN 755-2:2013
- **Post and chassis** Extruded aluminium to BS EN 755-9:2001
- Processing CNC machining with cutter heads using mineral-based coolant
- **Powder coating finish** any RAL colour
- **IP rating** 66 ( ingress protection)

**CASE SPECIFICATION**

**A1**
- Overall size: 740mm w x 1080mm h
- Visual size: 610mm w x 860mm h

**A0**
- Overall size: 1330mm w x 1080mm h
- Visual size: 1200mm w x 860mm h

*Special sizes available on request.*

- Aluminium construction
- Powder coated
- Toughened glass covers
- Side hinge - left or right or top hinged with gas cylinders
- Permanent ventilation
- Magnetised interior back panel
- Vandal and frost proof locks
- 140Mm deep
- Available in any RAL colour

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**SOLARCASE SECTION DRAWINGS**

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**the solar range is produced by onthe case**

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