Low Energy Remote Power Solutions...

Modern solar power systems have a variety of uses and at Marlec we specialise in off-gird applications to provide electrical power at sites where the grid is inaccessible or too costly. There may be good environmental reasons for choosing a renewable energy option even where the grid is available. The systems are sustainable and often more cost effective owing to the avoidance of major groundworks.

BP Solar were a world leading research developer and producer of photovoltaic modules since 1972. As a UK distributor of BP Solar products we aim to understand your system needs and tailor a battery charging solution to suit your application whether that’s a solar stand alone or hybrid wind/solar kit incorporating one of our Rutland Windchargers. We will recommend you a balance of solar and/or wind power to delivery your power, day or night, summer or winter wherever you are in the world. More recently Ameresco have continued the BP brand after they departed from the solar market maintaining their high level accreditations and manufacturing standards. BP Models listed as stocks last.

All Solar Panels have “ARC Glass”, an anti-reflective coating with self cleaning properties so that under normal conditions panels do not require cleaning. The modules are robustly constructed using a clear anodised Universal frame and are offered with a warranty that will give you confidence in your system for many years ahead.

Solar panels can be connected in parallel to increase power and are modular allowing the user the flexibility to build up a system over a period of time in line with budgets and power requirements. The modules have a 12V output and are primarily designed for battery charging applications such as:

Environmentally Friendly...

- Off-grid homes
- Navigation Equipment
- Other sites where low power is needed
- Telecommunications
- Motorhomes & Caravans
- Telemetry Sites
- Sailboats

A range of solar regulators and mounting kits manufactured by Marlec are available, we will recommend products appropriate to your system.
Product features and Specifications

- BP and Ameresco Solar Panels are manufactured using high quality efficient crystalline silicon cells
- Rugged 50mm Universal frame is manufactured from clear anodised aluminium alloy type 6063T6. Silver in colour
- Temperature cycling range of -40°C to +85°C for 200 cycles
- Damp heat tested to withstand 85°C and 85% relative humidity for 1000 hours
- Front and rear static load tested e.g. wind, to 2400Pa
- Front load tested e.g. Snow, to 5200Pa
- Hailstone impact tested to 25mm hail at 23m/s from 1m distance
- The tempered glass is highly transmissive and self cleaning from rainfall
- Rugged and weatherproof construction - the cells are laminated between sheets of ethylene vinyl acetate (EVA) and 3mm tempered glass with a White Polyester backsheet
- Easy to connect - an IP54 weather rated junction box at the rear of each panel provides a 6 terminal screw connection block accept 2.5 - 10mm² cable. The junction box knockouts accept PG13.5, M20, 13mm conduit or cable fittings 6 -12mm in diameter.
- All solar modules are labelled with individual performance figures.

### PV Module Type: Peak Power: (W) Dimensions: (mm) Weight: (kg) Part No:

| Ameresco 3140J | 140W | 1510 x 674 x 50 | 12 | CA-10/98 |
| Ameresco 490J | 90W | 1209 x 537 x 50 | 7.7 | CA-10/97 |
| Ameresco 365J | 65W | 796 x 674 x 50 | 6.4 | CA-10/96 |
| BP365J | 65W | 796 x 674 x 50 | 6.4 | CA-10/21 |
| Ameresco 450J | 50W | 839 x 537 x 50 | 6 | CA-10/95 |
| BP340J | 40W | 655 x 537 x 50 | 5.75 | CA-10/13 |
| BP330J Rectangle | 30W | 796 x 358 x 50 | 4.8 | CA-10/24 |
| Ameresco 420J | 20W | 425 x 502 x 50 | 3 | CA-10/23 |
| Spectra 10 Framed | 10W | 317 x 352 x 50 | 2.1 | CA-10/83 |
| Ameresco 410M Multimount | 10W | 421 x 269 x 23 | 1.5 | CA-10/92 |
| BPSX305M Multimount | 5W | 269 x 245 x 23 | 0.8 | CA-10/10 |

**Warranty**

- Free from defects in materials and workmanship for 2 years (BP modules 5 years)
- 90% minimum power output over 12 years
- 80% minimum power output over 25 years

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Authorised BP and Ameresco Distributor