

# Solar Energy

for Off-grid Power Wherever You Need It

.....from a company with a vast wealth of experience in renewable energy.

Solar power systems have a variety of valuable uses in modern living, from simple battery charging on boats and caravans to professional applications at isolated sites whose operations are critical.

Solar energy can open up many new options for you to use electrical appliances and equipment away from the grid supply. Already there are tens of thousands of successful installations of solar panel systems supplied by us and these include providing power for:

- Telemetry
- Telecommunications
- Parking meters
- Navigation aids
- Security sensors
- Instrumentation
- Sailing Boats
- Caravans, Motorhomes
- Off Grid Homes
- Electric Fencing
- Traffic signals
- Isolated automatic gates

*There are good environmental reasons for choosing a renewable energy option even when the grid is available, reducing infrastructure works and ongoing energy costs.*

*Where the grid is inaccessible or too costly to install solar energy provides a cost effective and sustainable alternative.*

## About Marlec

Here at Marlec we have specialised in renewable energy since 1979. Our range of wind turbines, Rutland Windchargers, are used worldwide in some of the harshest working environments on land and sea. We introduced solar panels into our product portfolio in 1989 and we have built up extensive and unrivalled experience in the application of solar panels. We work with our customers to provide them with successful solutions that enable them to experience the independence and benefits of "off-grid" energy.



# The Alpex Range of Solar Panels

Alpex Solar Panels have been selected by our experienced team here at Marlec, we look for a build quality that combines a durable frame and good photovoltaic cell performance for our customers. The range of polycrystalline panels benefit from:

- Rugged frames constructed of a heavy duty anodised aluminium box and key design to withstand forces over long term installation
- Anti-reflective coated glass to improve light transmission to the cells to generate
- Power tolerance of +/- 5% of rated power
- Models over 30W are certified against degradation from salt mist corrosion
- 10 year product warranty
- Alpex is an ISO9002 certified manufacturing facility and their solar panels are backed up by the international standards IEC61215 and UL1703



*Using solar panels to generate your own power can be as simple as choosing a solar panel that fits in a certain available space to keep your battery topped up. This works well in leisure and non critical applications.*

*Where our customers need greater certainty of power supply we recommend you talk to one of our sales engineers. We will configure a balanced energy supply to deliver power, day or night, summer or winter wherever you are in the world.*



Models Panel Type	Power (W)	Size (mm)			Weight Net/Packed (Kgs)	Electrical Specification				
		Width	Length	Depth		Voc (V)	Isc (A)	Pmax (W)	Vpm (V)	Ipm (A)
ALP-10	10	360	295	22	1.3 / 1.5	21.4	0.63	10	17.7	0.57
ALP-20	20	360	487	22	2.06 / 2.3	21.4	1.25	20	17.7	1.15
ALP-30	30	666	354	30	2.84 / 3.2	21.4	1.85	30	17.7	1.7
ALP-40	40	666	435	30	3.42 / 3.8	21.4	2.45	40	17.7	2.3
ALP-50	50	666	556	30	4.22 / 4.7	21.4	3.1	50	17.7	2.85
ALP-75	75	666	796	35	6.06 / 6.8	21.4	4.6	75	17.7	4.25
ALP-100	100	666	1006	35	7.6 / 8.3	21.4	6.3	100	17.7	5.7
ALP-125	125	666	1151	35	9.42/10	21.4	7.6	125	17.7	7.1
ALP-135	135	1006	1006	35	10.9 / 11.9	21.4	8.0	135	17.7	7.65

*Call one of experienced sales engineers today for a reliable solution to your application.*

UK Importer & Distributor for Alpex Solar.

**Marlec Eng Co Ltd**

Rutland House, Trevithick Rd, Corby, NN17 5XY

Tel:+44(0)1536 201588 sales@marlec.co.uk www.marlec.co.uk