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Alpha Solar

Solar LED Sign Light

ZERO emission traffic sign illumination

Intelligent resourceful design, lightweight and with zero carbon emissions.

The advanced Alpha Solar LED sign light features a state of the art solar panel that will power the sign light throughout the year. Compliant for use on UK highways, it can efficiently illuminate traffic signs up to 900mm in diameter.

- Easy install
- Light weight - batteries in base of the column
- 10 year Alpha warranty
- Efficient LEDs
- Rated E2/UE2 on 900mm traffic signs
- Rating IP66

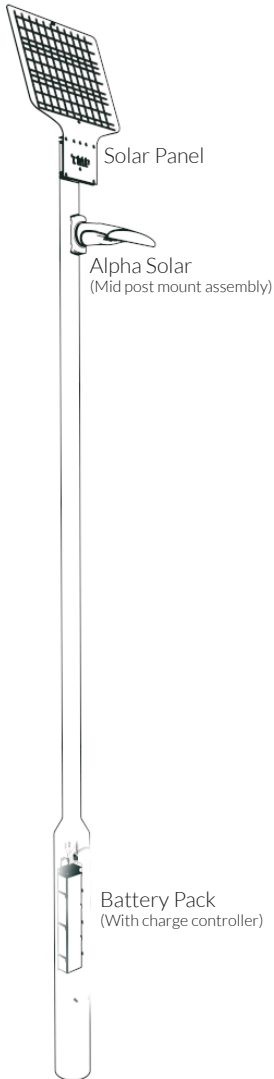
Built to withstand the harshest environments

The Alpha Solar sign light is made from marine grade aluminium and advanced composite polymers ensuring this self-contained solar sign light will withstand the harshest of environments. The corrosion resistant lightweight structure of the Alpha Solar reduces windage and fatigue.

Lasting throughout Winter

The Alpha Solar sign light will keep a 900mm diameter traffic sign illuminated throughout the year. In times when the sun is diminished especially winter, the battery pack can take over for 5 consecutive days without being charged. Mounted in the bottom of the lighting column, the batteries and charge controller will fit in the smallest column, as defined in BS EN 40-2:2004 with an aperture of just 500mm x 100mm*.

Specifications



Conforms to BS EN 12899-1:2007

Solar Panel	
Construction	2.5mm Thick Marine Grade 5083 aluminium 520mm wide x 758mm tall - 3.95kgs
Panel	ETFE. EVA encapsulant
Solar Cells	33 x high-efficiency crystalline silicon
Power Output	30W peak output
Alpha Sign Light	
Case Material	LM6 marine grade cast aluminium
Ingress Protection	IP66
Corrosive Resistance	SP1
Colour	Powder coated grey as standard
Lens Material	Perspex
LED Gear Tray	4 high efficiency LEDs
Dusk To Dawn Operation	Activated on voltage drop (8v)
Colour Rendering Index	RA60
Operating Temperature	-25°C to +50°C
Nominal LED Life Expectancy	50,000+ hrs
Battery Pack	
Battery Type	3 x 7 Ah x 12 V : 21Ah (252Wh) storage
Battery Weight	2.8 kg per battery
Charge Controller	Pulse width modulation (PWM)
Sign Column - Not supplied	
Type	In accordance with BS EN40-2:2004
Base	Minimum door aperture of 500mm x 100mm
Warranty	Alpha Sign Light - 10 years Solar Panel, Battery Pack & Controller - 1 year
Recyclable	Yes

Illumination	Sign Dia.	Brightness standard	Uniformity standard
Compliance as per	600mm	E2	UE3
Lighting standard	750mm	E2	UE3
BS EN 12899 pts. 1&2	900mm	E2	UE2



Installation

The Alpha Solar sign light is perfect for installing into traffic sign columns that are in areas that are lacking electrical power supplies. The solar sign light option will reduce installation costs and protect the environment as it has zero carbon emissions.

Installation is quick and streamlined, the solar panel fits perfectly on top of the signpost above the mid-mounted sign light. The batteries fit into the column keeping them safe from vandals and the environment, all connected with pre-wired cables terminating in plugs and socket connections.

Maintenance and Safety

Clean external surfaces with diluted mild detergent as required, paying special attention to the sign light's lens and photocell window.

The Alpha Solar sign light is extremely low voltage, protecting operatives and the public from electrical risks, and also contains no glass or ceramic PV cells, resulting in no cracking or shattering if impacted in RTC.