



## Uses

Power supply for individual beacons or multiple beacons systems.

## Features



- The photo voltaic panel system is designed for situations where it is difficult or impossible to power the obstruction lights from mains.
- The battery, charger and control unit are mounted in a resistant metal housing.
- Housing: the battery, charger and controller unit are enclosed in a powder coated, IP54, metal case.
- Solar panel: Made of mono or poly crystalline silicon solar cells. Resist environmental hazards such as hail, snow, ice and storm.
- Charger/Control unit: Standard controller or MPPT type for increased efficiency. The controller automatically turns on the beacon at night. The charger protects the battery from overcharging depending on the environment temperature. Is designed to enhance the power system performance, providing effective battery charging whilst ensuring the demands of the load equipment are met.
- Battery: The battery is not included for transport purposes.
- System Skid: The sliding system is designed to provide the possibility of adjusting the incidence angle of the photo voltaic panel between 0° and 45°. The installation of the equipment is made on a vertical tube. The diameter of the tube may vary from 30mm to 80mm



## Electrical Characteristics

From this configurable solar power system the following types of beacons can be powered:

- Low Intensity Obstruction light **type A single or double** - 1.5Wh
- Low Intensity Obstruction light **type B single or double** - 3Wh
- Group of Low Intensity Obstruction lights **type A or type B**, single or double
- Medium Intensity Obstruction light type A - white light flashing - 30Wh
- Medium Intensity Obstruction light type B - red light flashing - 15Wh

**AES-OBS-SOLAR | Solar Power System Obstruction Lighting**

**Order Code**

AES - OBS - XX - XXX

Type — AES = Series Indicator (Airfield Lighting)

Category — Obstruction lighting

Operating Voltage —  
12 - 12V, operating voltage  
24 - 24V, operating voltage  
48 - 48V, operating voltage

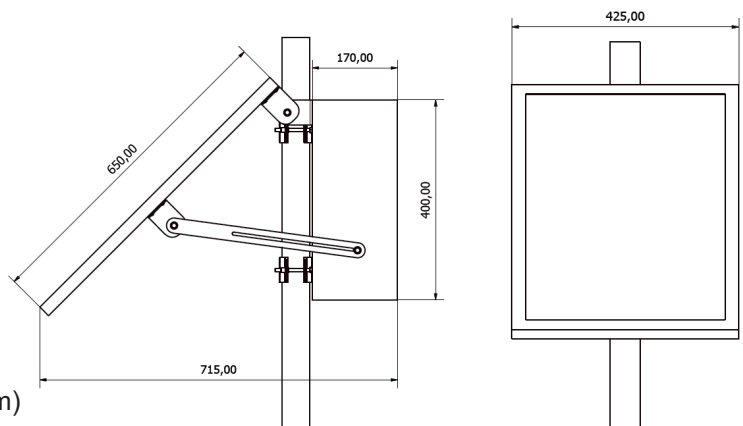
Photovoltaic System Power (kWh) —  
004 = 0.4kWh, 12V operating voltage, 30Ah battery  
015 = 1.5kWh, 24V operating voltage, 60Ah battery  
096 = 9.6kWh, 48V operating voltage, 200Ah battery  
or other powers as required

**Environment**

- Temperature range: -40°C to +55°C, +80°C on the surface of the photovoltaic panel.
- IP65

**Weight and Dimensions**

<b>Width - max. lenght</b>	715mm / 425mm
<b>Maximum Height</b>	650mm
<b>Total Weight</b>	24 Kg



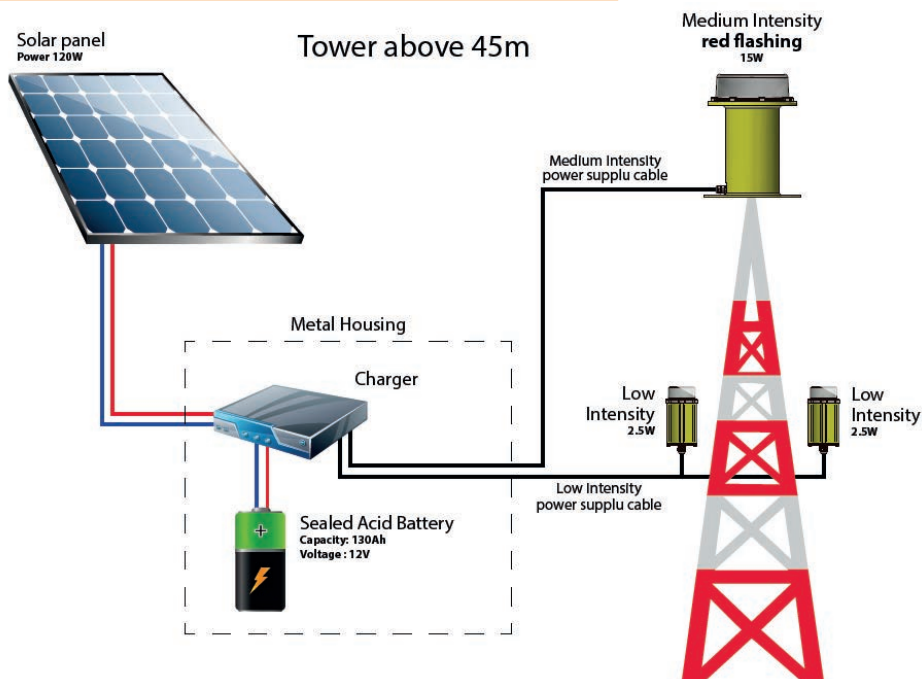
- The system includes the following components:
- Cable glands
  - Pole mounting system
  - Photovoltaic panel mounting kit (sliding system)



## System Configuration Options

- Operating voltage: 12V DC, 24V DC, 48V DC
- Solar panel power output: from 30W up to 200W
- Charger / Control unit type: standard or MPPT
- Battery capacity: from 30Ah up to 200Ah

### System used on towers > 45m



### System used on towers < 45m

