



ElectroMax[®]
WE ARE JUST MAKING LIGHTING RIGHT

SOLAR POWER SYSTEM

Obstruction Lighting



SOLAR POWER SYSTEM

Application

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.

SC ELECTRO MAX SRL

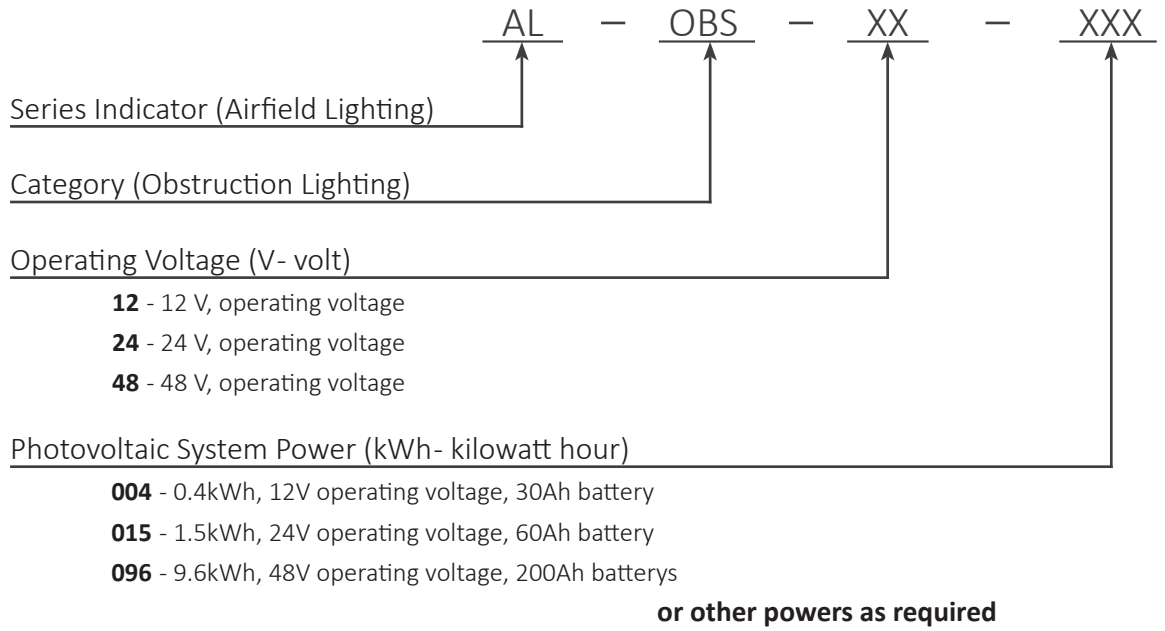
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Product Code



Description

IMPORTANT: The photovoltaic panel must be oriented towards South

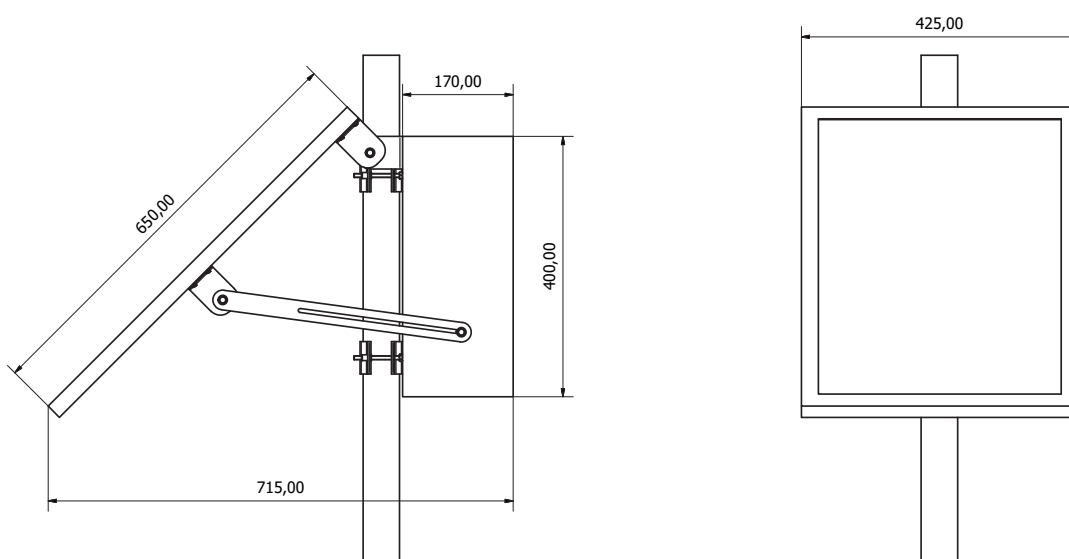
Housing	<ul style="list-style-type: none"> • The battery, charger and controller unit are enclosed in an powder coated, IP 54, metal case.
Solar Panel	<ul style="list-style-type: none"> • Made of mono or poly crystalline silicon solar cells. • Resist environmental hazards such as hail, snow, ice, and storms.
Charger / Control unit	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • The battery is not included for transport purposes
System Skid	<ul style="list-style-type: none"> • 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 80 mm.

Environment

Temperature range	-40° to +55° , +80° on the surface of the photovoltaic panel
Degree of protection	IP 65

Mechanical Characteristics

Width - Maximum Length	715 mm / 425 mm
Maximum Height	650 mm
Total Weight	24 kg

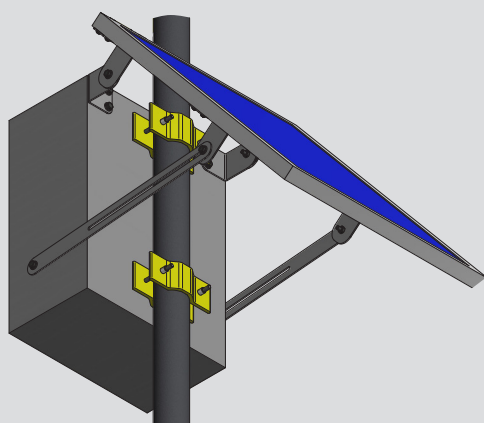


The system includes the following components:

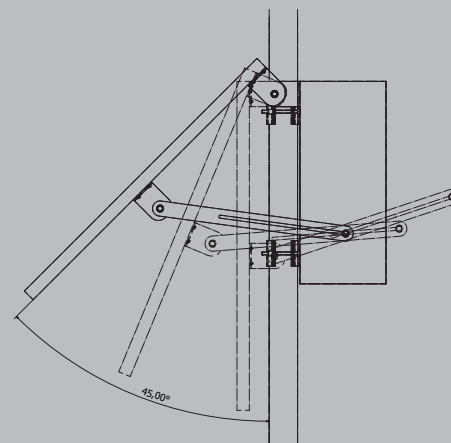
- Cable glands
- Pole mounting system
- Photovoltaic panel mounting kit (sliding system)

Mounting

Mounting on $\Phi 30$ mm up to $\Phi 80$ mm pipe



Sliding System - from 0° up to 45°



Electrical Characteristics

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

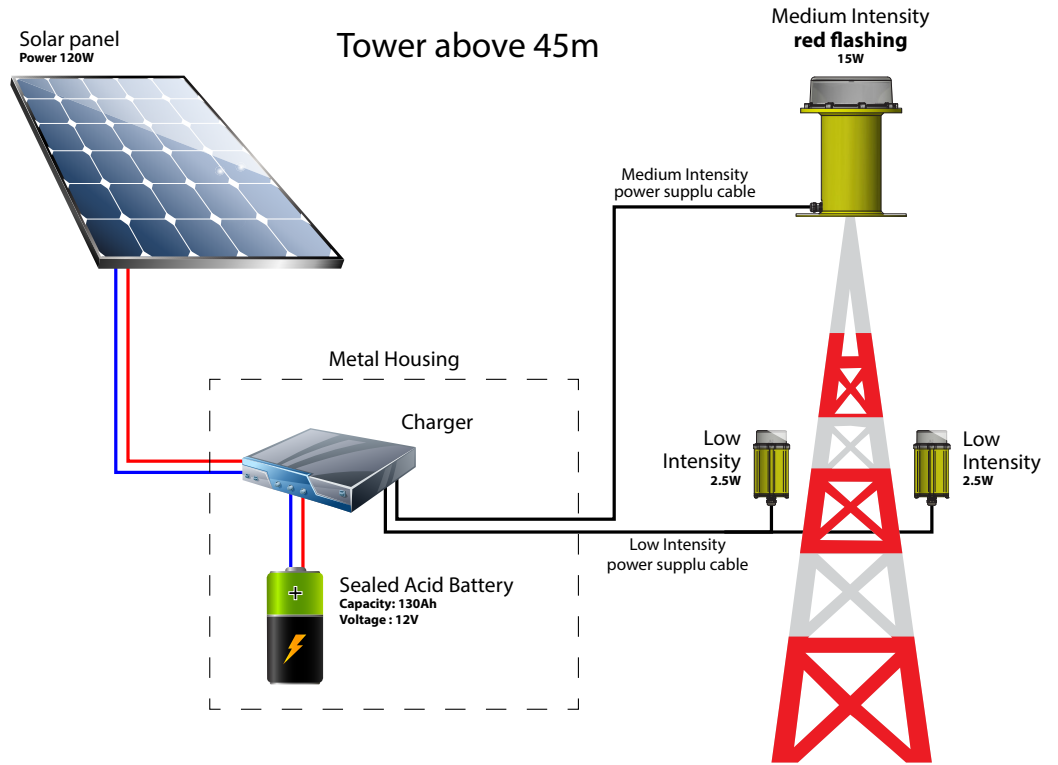
- Low intensity obstruction light **type A single or double** - 1.5Wh
- Low intensity obstruction light **type B single or double** - 3Wh
- Group of low intensity obstruction lights **type A** or **type B**, single or double
- Medium intensity obstruction light type A - white light flashing - 30Wh
-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

System Configuration Options

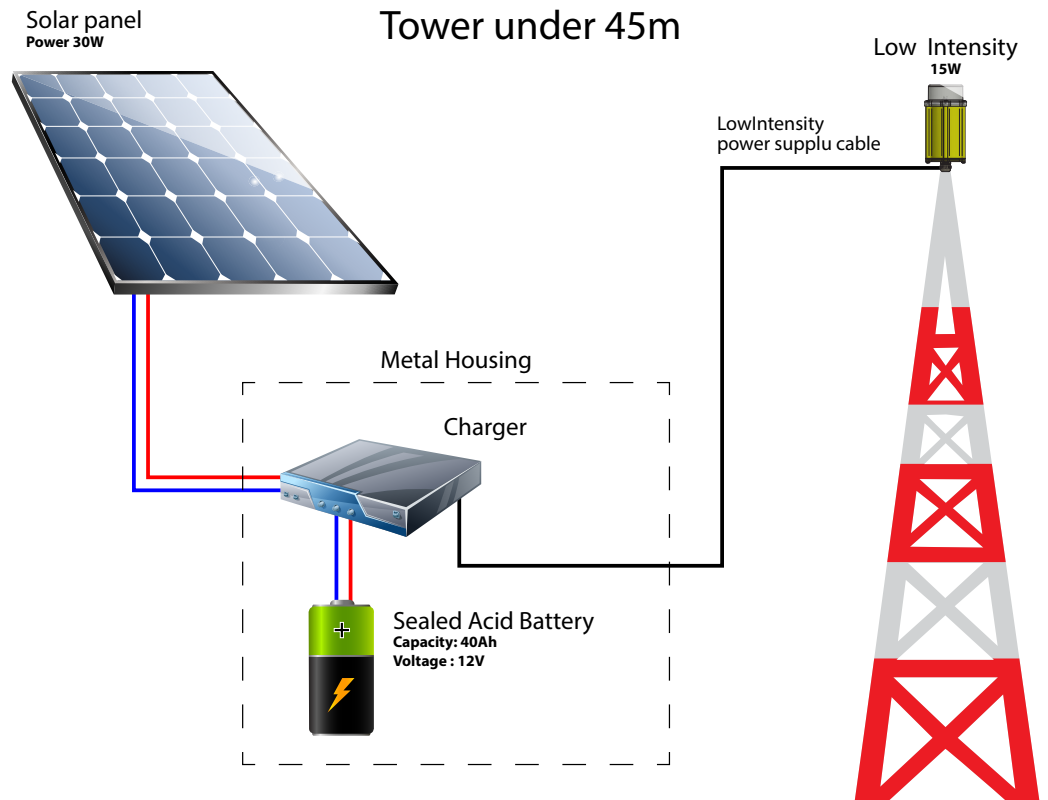
- Operating voltage: 12 V DC, 24 V DC, 48 VDC
- Solar panel power output: from 30W up to 200W
- Charger / Control unit type: standard or MPPT
- Battery capacity: from 30Ah up to 200Ah

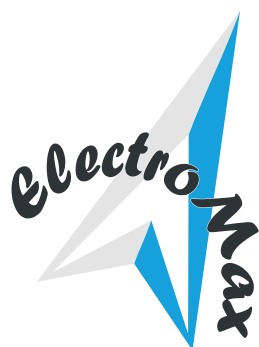
Examples of Systems

System used on towers > 45 m



System used on towers < 45 m





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