

DESCRIPTION

The SOLABEL is a thoroughly tested solar powered Belisha beacon, designed for reliable off-grid installation. Featuring a low impact design solar panel, advanced technology batteries and a low energy LED beacon light engine, the SOLABEL is designed to operate all year round. The SOLABEL is supplied complete with pre-finished post, beacon and solar engine.

SOLAR ENGINE

| | |
|---------------------|---|
| Solar Panel | 750 mm diameter, mono crystalline panel with 12 V, 60 Watt output. Impact resistance IK10. Solar panel set at 22°. |
| Solar Panel Housing | Rotationally moulded U.V stabilised (UV8) black polyethylene moulding with galvanised steel support pillar powder coated black. |
| Battery | 4 x 12 V / 9 Ah Absorbent Glass Mat (AGM) batteries mounted in the base compartment of the post. |
| Regulator | High efficiency PWM regulator mounted in post base. |
| Ingress Protection | IP54 |

LED BEACON

| | |
|--------------------|--|
| Beacon | 335mm diameter, self coloured, rotationally moulded, U.V stabilised (UV15), low density polyethylene, 2.5mm nominal wall thickness. |
| Gallery | Die Cast LM6-M aluminium, acid cleaned, chromate primed and polyester powder coated black (150µm min). High performance gasket at beacon interface. All threads stainless steel bushed. Pre-fitted stainless steel shroud fixing points. |
| Light Engine | Custom LED driver driving LED's with a consumption of 3.4 watts when lit. LED driver efficiency 90%. Integrated flash controller. Short circuit and open circuit protection. |
| Light Output | 350 cd/m ² with uniformity > 0.66 . |
| Ingress Protection | IP54 . |

POST

| | |
|--------------|--|
| Construction | 76mm x 140mm mild steel large base post, galvanised after manufacture, conforming to BS EN 40. Finished black with two white reflective bands. |
| Fixing | Rooted or Flanged post available. |

GENERAL

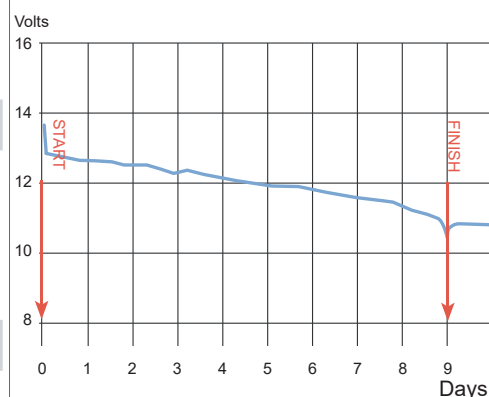
| | |
|------------------------------------|---|
| Beacon Shroud (fitted as standard) | 3mm black self-colour poly carbonate with stainless steel fittings. |
| Fasteners | Stainless Steel. |



BS8442:2015

AUTONOMY

Battery Discharge over time

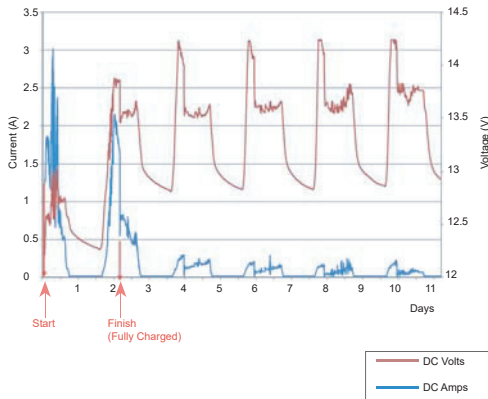


Measurements taken with beacon connected and Solar Panel disconnected

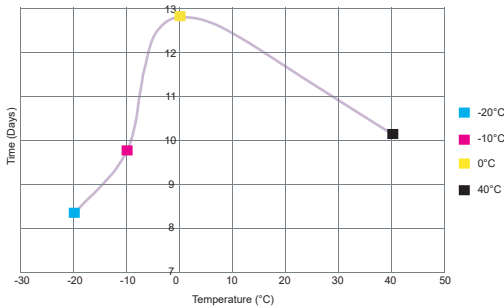
System autonomy > 9 days,
(Should charge not be received).

PERFORMANCE

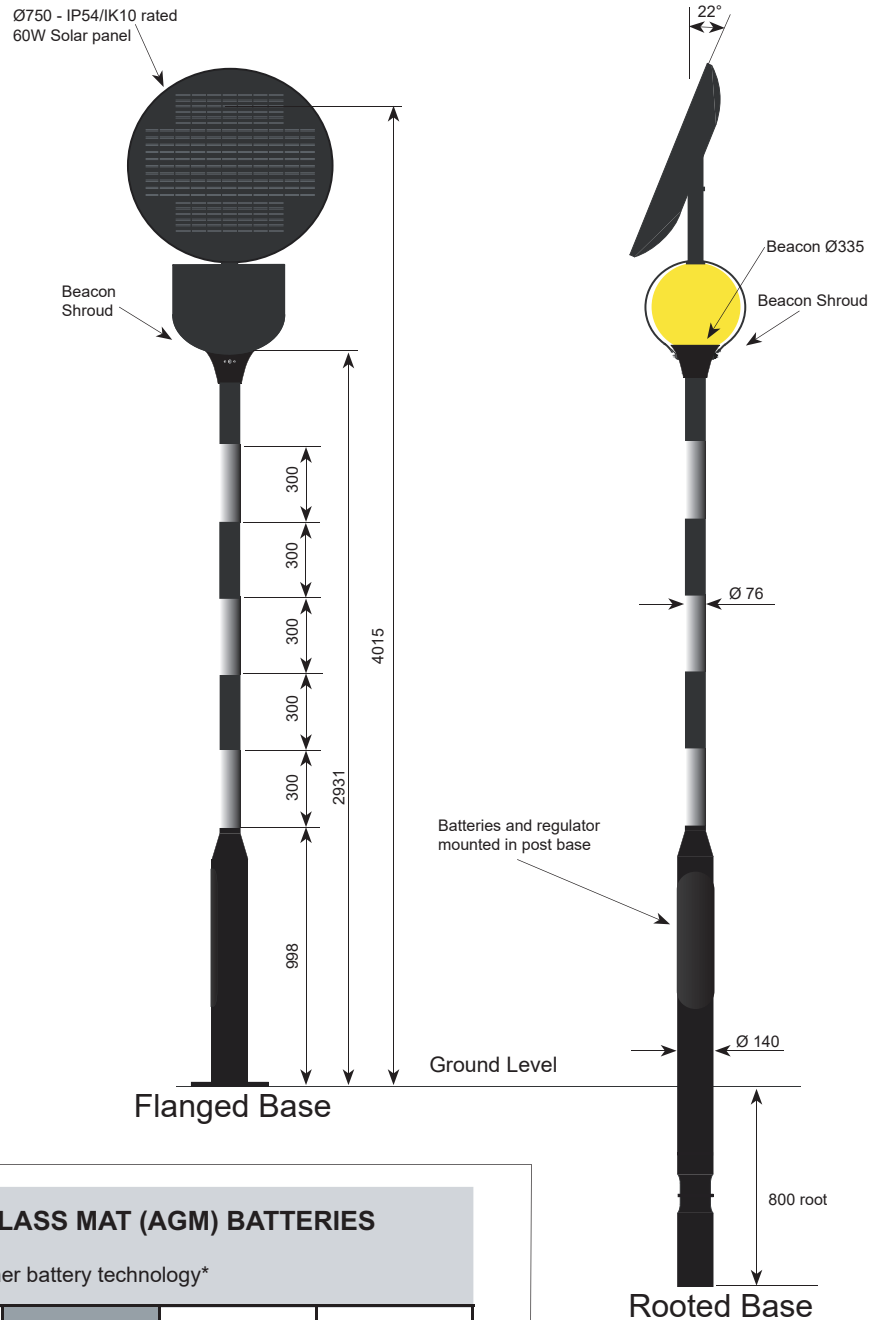
Charge recovery from flat battery



Autonomy variance with temperature



DIMENSIONS



Why we use ABSORBENT GLASS MAT (AGM) BATTERIES

Comparison with other battery technology*

| BATTERY | Lead Acid | Gel | AGM | Lithium | Ni-cad |
|---------------------------|---------------|---------------|---------------|---------------|---------------|
| Product Life span (Years) | 2 - 3 | 2 - 4 | 8 - 12 | 5 - 6 | 4 - 5 |
| Temperature Range | -18°C to 45°C | -18°C to 50°C | -40°C to 65°C | -20°C to 65°C | -20°C to 65°C |
| No. Discharge Cycles @80% | 450 | 500 | 1500 | 1300 | 1100 |
| Transportation Safety | Medium Risk | Low risk | No Risk | High Risk | Medium Risk |

* Manufacturers data

PACKING

All items are shipped on one pallet :

- Solar panel assembly
- LED Beacon with shroud
- Post
- Battery packs x 2
- Regulator assembly
- All cables included.

Total weight : 58kg

Further advice on the SOLARBEL including specific installation requirements is available from IPL group. Measurements and weights are approximate. The designs are the property of Innovative Products Ltd (IPL group) and may not be reproduced without express permission. Innovative Products reserve the right to amend specifications or to withdraw models without prior notice. © July 2019.

