

### 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 <sup>2</sup> 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 three white reflective bands.
Fixing	Rooted or Flanged post available.

### GENERAL

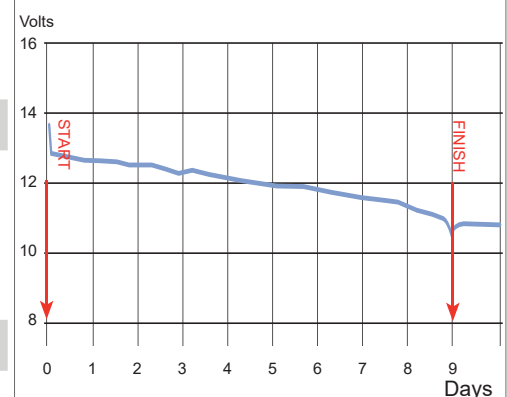
Beacon Shroud (fitted as standard)	3mm black self-colour polycarbonate with stainless steel fittings.
Fasteners	Stainless Steel.



BS8442:2015

### AUTONOMY

#### Battery Discharge over time



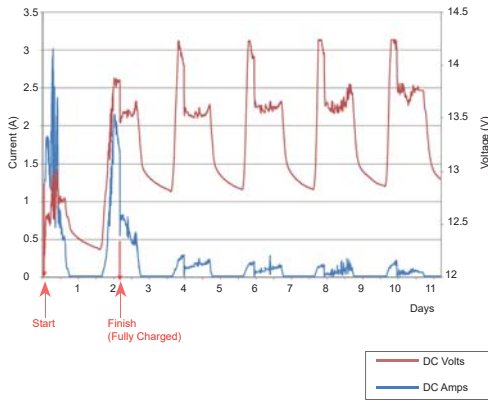
Measurements taken with beacon connected and Solar Panel disconnected

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

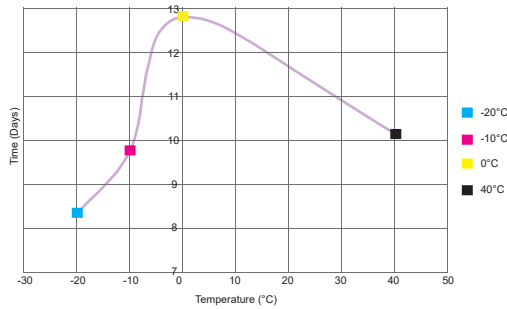
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## PERFORMANCE

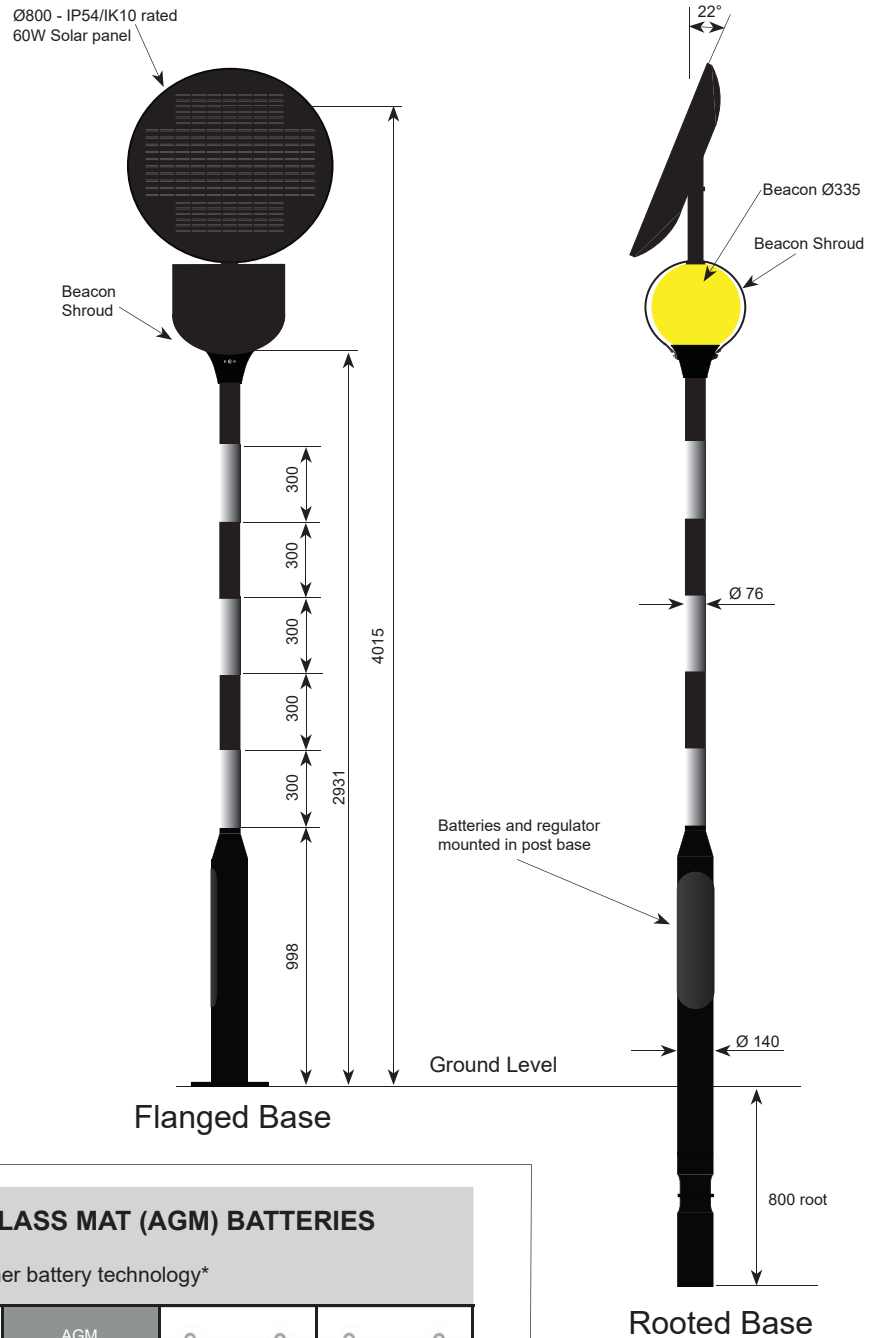
Charge recovery from flat battery



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

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