

### DESCRIPTION

The SOLAR LUA is a thoroughly tested solar powered sign light for illuminating signs up to 600mm. Designed for reliable off-grid installation the SOLAR LUA features a low impact design solar panel, advanced technology batteries and a low energy LED light engine for dusk to dawn operation all year round. The SOLAR LUA is supplied as a kit which fits onto a pre-installed 89/168 column.

### SOLAR ENGINE

Solar Panel	600mm (750mm)* diameter, mono crystalline panel with 12 V, 30 (60)* Watt output. Impact resistance IK10. Solar panel set at 22°.
Solar Panel Housing	Rotationally moulded UV stabilised (UV8) black polyethylene moulding with galvanised steel 89mm socket powder coated black.
Battery	2(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 (Solar Panel assembly)

\* Double LUA



BS EN 12899-1:2007

### LUA SIGN LIGHT

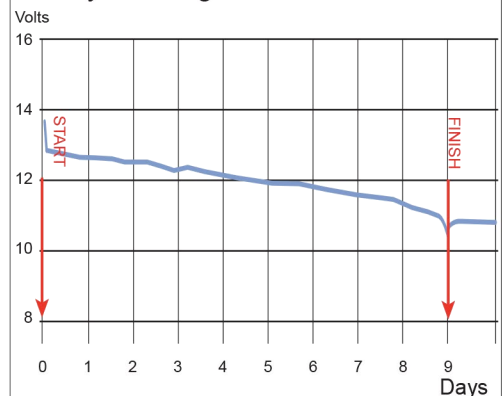
Body	Die cast LM6-M aluminium, acid cleaned, chromate primed and polyester powder-coated Aircraft grey to BS381C : 1980 No. 693. All threads are stainless steel bushed.
Light Engine	LED Integrated sealed unit, made from injection moulded UV stabilised polycarbonate. Comprising gear tray, custom design lens, long life LED and potted, purpose designed constant current driver using patented LMD, dusk to dawn technology.
Light Output	E2 UE3 - BS12899-1:2007
Ingress Protection	IP54 .
Post Bracket	89mm single or double through bracket. Die cast LM6-M aluminium, acid cleaned, chromate primed and polyester powder-coated Aircraft grey to BS381C : 1980 No. 693

### POST REQUIREMENT

Specification	Pre-installed 89mm x 168mm mild steel large base post, galvanised after manufacture, conforming to BS EN 40 with a recommended height of 4 metres. Post not supplied .  Kits for other sized posts are also available. Contact us for further information.
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### AUTONOMY

#### Battery Discharge over time



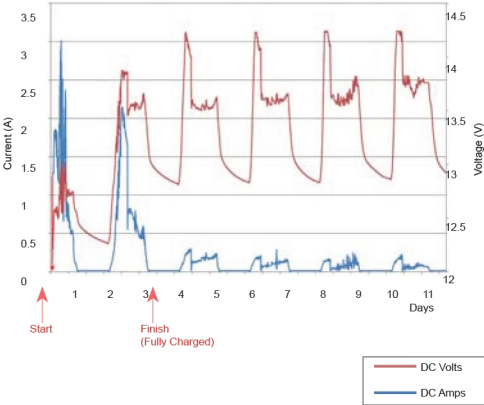
Measurements taken with LUA connected and Solar Panel disconnected

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

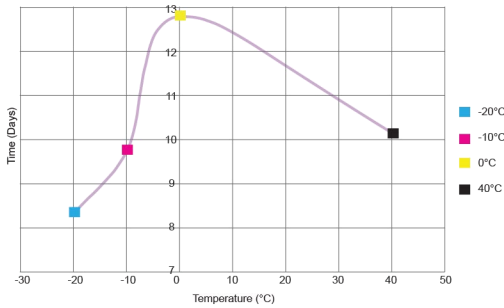
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### PERFORMANCE

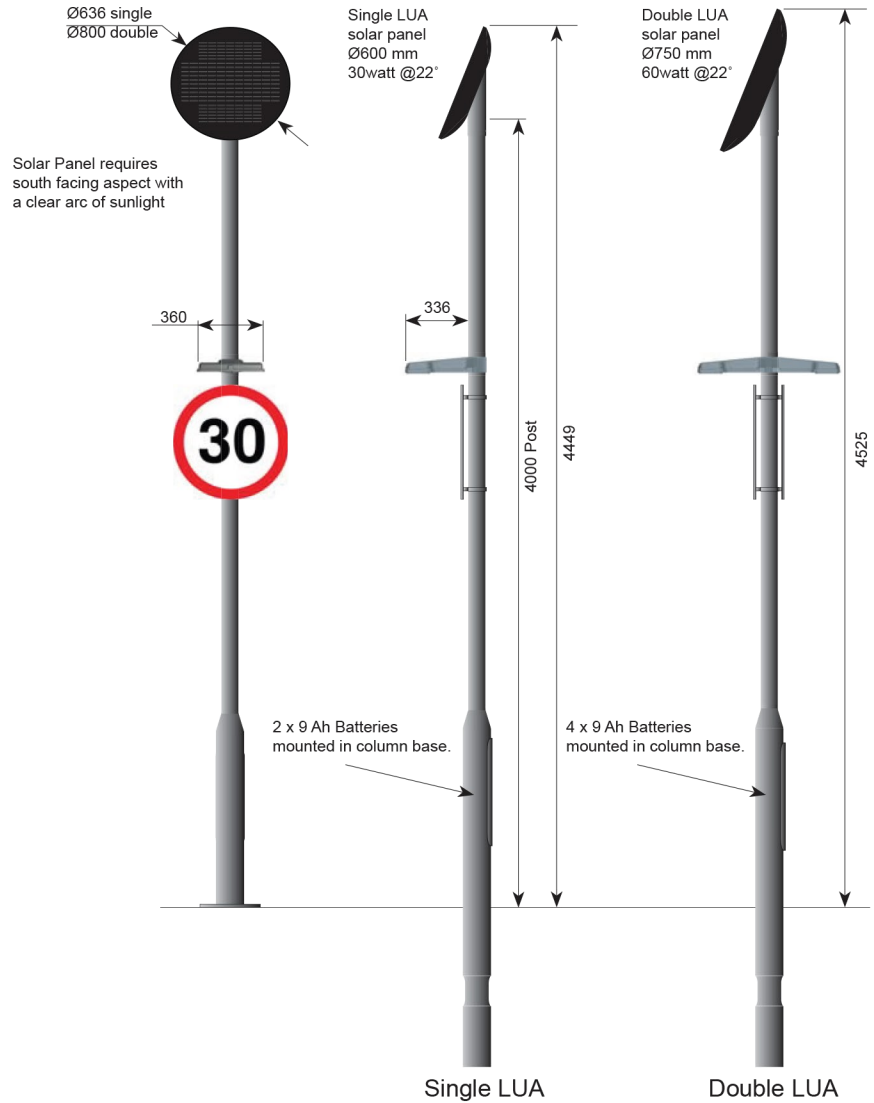
Charge recovery from flat battery



Autonomy variance with temper-



### 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

	Single	Double
Solar panel	1 x 30w	1 x 60w
LUA LED Solar	1	2
Battery pack (2 x 9Ah)	1	2
Regulator Assy	1	1
Mounting Brkt	1 Single	1 Double
Weight	20kg	30kg

Shipped on pallet  
(not included in weights)

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