

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

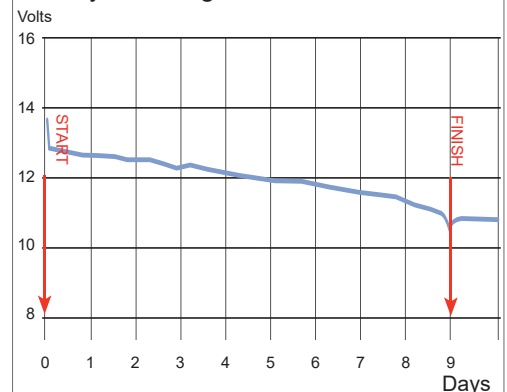
| | |
|--------------------|--|
| Body | Die cast LM6-M aluminium, acid cleaned, chromate primed and polyester powder-coated Aircraft grey to BS381C : 1980 No. 693. All threads are stainless steel bushed. |
| Light Engine | LED Integrated sealed unit, made from injection moulded UV stabilised polycarbonate. 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. |

AUTONOMY

Battery Discharge over time

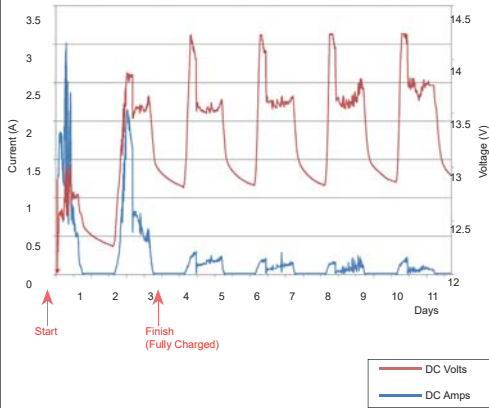


Measurements taken with LUA connected and Solar Panel disconnected

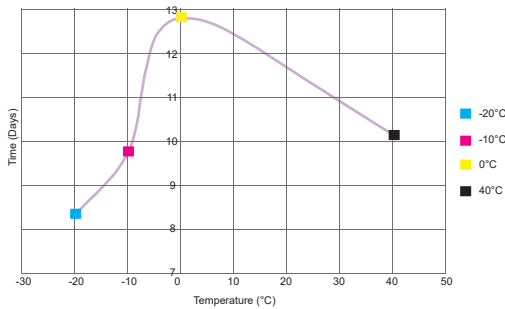
**System autonomy > 9 days,
(Should charge not be received).**

PERFORMANCE

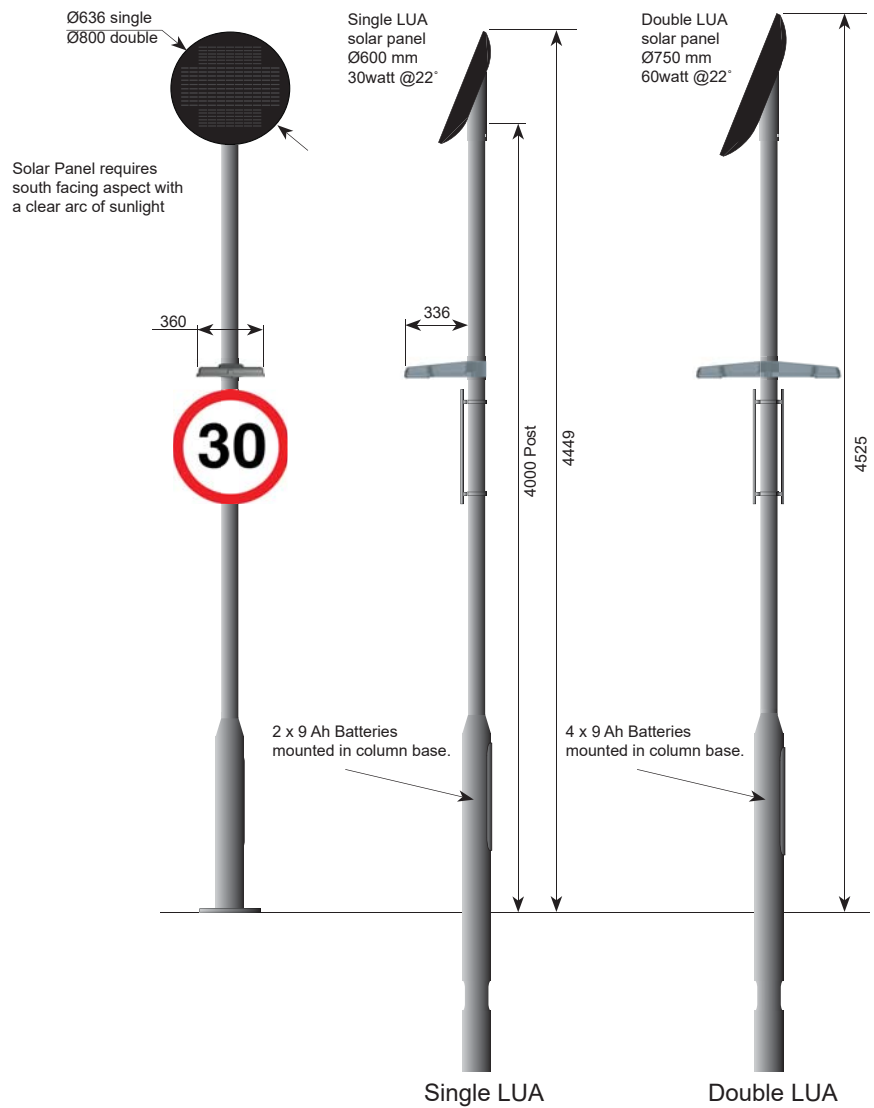
Charge recovery from flat battery



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)

Simmons signs Limited reserves the right to alter or improve this guide without prior notice.