

DESCRIPTION

The SOLAR LUB is a thoroughly tested solar powered sign light for illuminating signs up to 1500mm. Designed for reliable off-grid installation the SOLAR LUB 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 LUB is supplied as a kit complete with a 114/194mm column or supplied with an external battery box for fitting to a pre-installed 114/168 column.

SOLAR ENGINE

Solar Panel	1000mm diameter, mono crystalline panel with 12 V, 80 Watt output. Impact resistance IK10. Solar panel set at 22°.
Solar Panel Housing	Thermoformed UV stabilised black Pinseal ABS moulding with galvanised steel 114mm socket powder coated black.
Battery	4 x 12V / 18Ah Absorbent Glass Mat (AGM) battery packs in the base compartment of a 194 post or separate enclosure.
Regulator	High efficiency PWM regulator in base or separate enclosure.
Ingress Protection	IP54 (Solar Panel assembly)



BS EN 12899-1:2007

LUB 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 light engine. Comprising galvanised gear tray, custom design lens, long life LED and potted, constant current driver using patented LMD, dusk to dawn technology.
Light Output	1500 Signface to E1 UE2 - BS12899-1:2007 900 & 1200 Signfaces to E1 UE3 - BS12899-1:2007
Ingress Protection	IP54 .
Post Bracket	114mm three band channel. Stainless steel in natural finish.
Optional Battery Enclosure	Galvanised Steel enclosure 300 x 400 x 180mm, polyester powder coated

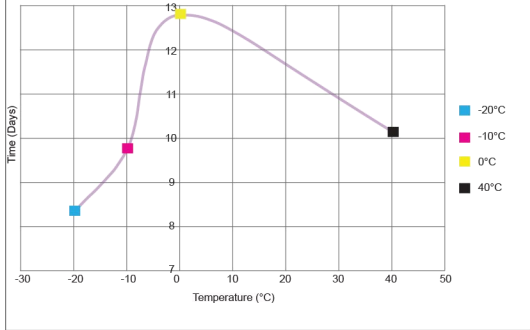
POST REQUIREMENT

Specification	<p>Complete with a 114mm x 194mm mild steel large base post, galvanised after manufacture, conforming to BS EN 40 with a recommended height of 4.336 Metres above ground for a sign height of 2.3 Metres.</p> <p>Minimum pre installed post size advised is 114mm x 168mm for use with our battery enclosure. Contact us for further information.</p>
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Simmons signs Limited reserves the right to alter or improve this guide without prior notice.

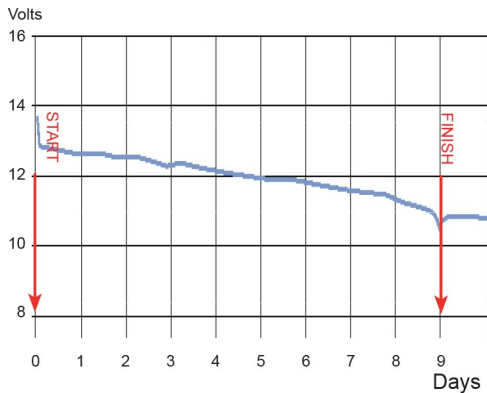
PERFORMANCE

Autonomy variance with temper-



AUTONOMY

Battery Discharge over time

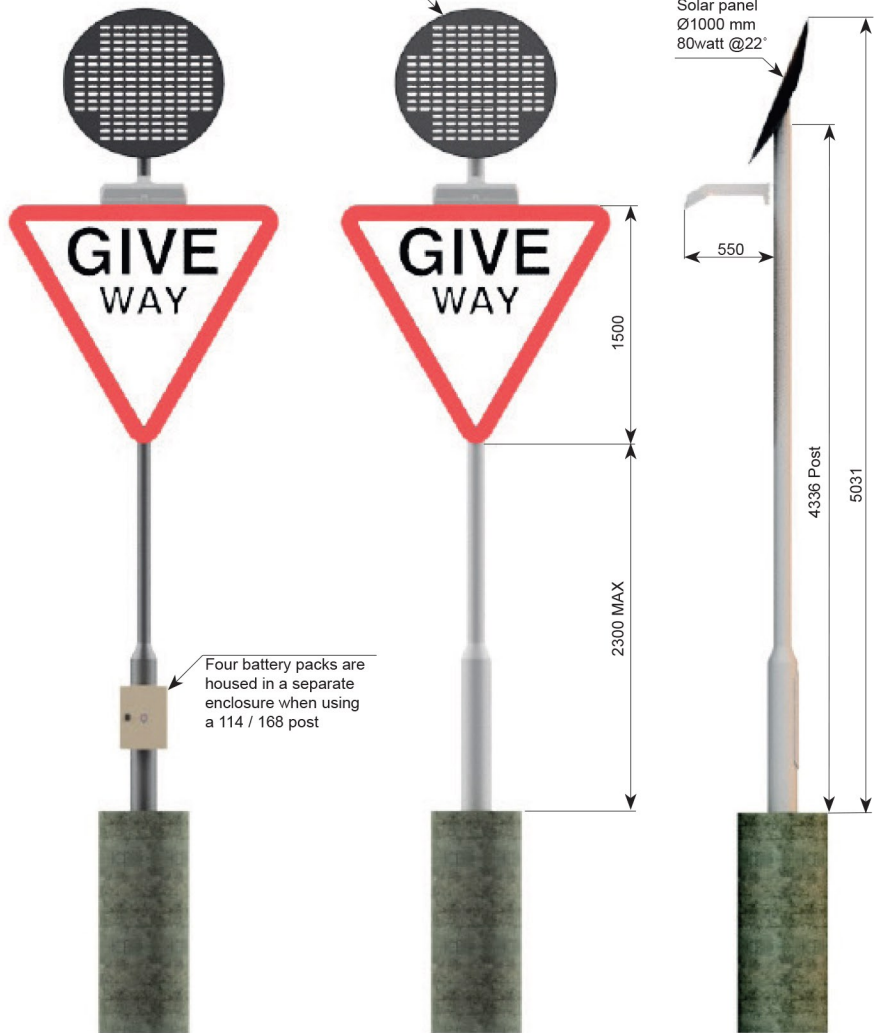


Measurements taken with LUB connected and Solar Panel disconnected

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

DIMENSIONS

Solar Panel requires south facing aspect with a clear arc of sunlight



114/168 Post

114/194 Post

114/194 Post

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

Not including post

Solar panel	1 x 80w
LUB LED Solar	1
Battery pack (4 x 18Ah) Optional enc. (1) 7.5Kg	1
Regulator Assy	1
Mounting Brkt	1
Weight inc. (1)	52.5kg

Shipped on pallet
(not included in weights)

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