Solectric 30

Orb Energy

Results based on test procedures detailed in
IEC 62257-9-5, ed. 2.0

Solar Run Time

Lumens

600

4 Lamps - High

0   2   4   6
Hours
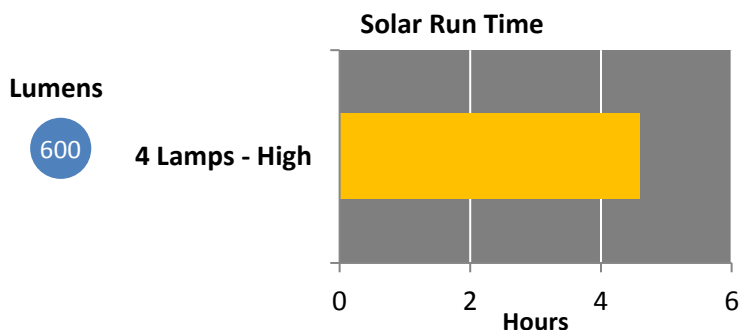
✓ **Meets Lighting Global Quality Standards**

Mobile Charging

4 **Light Points**

Warranty Information

A 1-year warranty (see detailed terms for more information).

Performance Details

Performance Measure	Brightness Setting***
	4 Lamps - High
Full battery run time* (hours)	4.6
Run time per day of solar charging* (hours)	4.6
Total light output (lumens)	600
Total area with illumination > 25 lux** (m^2)	1.1
Total lighting service (lumen-hours / solar-day)	2800

* Run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.

** Total area with illumination > 25 lux is determined by the maximum area with adequate illumination at a 0.75 m distance and at the distance from which the product would normally provide task lighting service.

*** Additional brightness settings (not tested): 4 lamps - mid, 4 lamps - low, Various other combinations

Lighting Details

Lamp type	LED
Description of light points	30 LEDs per light point
Colour characteristics	CRI 79 CCT "Cool" (5000-7000 K)
Distribution type	Wide
Lumen maintenance	98% of the original output remains after 2,000 hours run time

Special Features	
Mobile charging	5 V at 500 mA USB socket output with adapters to charge mobile phone from battery
Indicators	Green LED = charging indicator Yellow LEDs = battery state of charge indicators Red LED = low battery or over-charge indicator

Durability	
Overall durability and workmanship	Pass
Durability tests passed	Drop test, switch and connector cycling, strain relief test, physical ingress protection test, and protection from occassional rain

Solar Details	
PV module type	Amorphous silicon
PV maximum power point	10.8 watts

Battery Details	
Battery replaceability	Easily replaceable with common tools
Battery chemistry	Lithium iron phosphate
Appropriate battery protection circuit	Pass
Replacement batteries are available from the product manufacturer	

Product Details	
Manufacturer name	Orb Energy
Product name	Solectric 30
Product model / ID number	Solectric 30
Contact information	info@orbenergy.com
Website	www.orbenergy.com

SSS Information	
Specs sheet expiration date	Feburary 29, 2016
Quality Standards Framework Version	2013
Revision	2015.10