

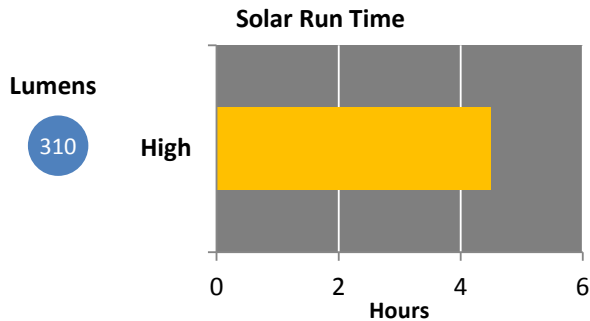
# Solectric 15

Orb Energy

Verify Online: [www.lightingglobal.org/products/orb-solectric15](http://www.lightingglobal.org/products/orb-solectric15)

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

Valid Until: September 30, 2019



**Meets Lighting Global Minimum Quality Standards**



**Mobile Charging**

**2 Light Points**



\* Mobile phone not included

## Warranty Information

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

## Performance Details

| Performance Measure                                       | Brightness Setting*** |
|---|-----------------------|
|   | High                  |
| Full battery run time* (hours)                            | 5                     |
| Run time per day of solar charging* (hours)               | 4.5                   |
| Total light output (lumens)                               | 310                   |
| Total area with illumination > 50 lux** (m <sup>2</sup> ) | 0.45                  |
| Total lighting service (lumen-hours / solar-day)          | 1400                  |

\* 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 > 50 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): Medium, Low

## Lighting Details

|                             |   |
|-----------------------------|---|
| Lamp type                   | LED   |
| Description of light points | 30 LEDs per light point                                       |
| Colour characteristics      | CRI 79<br>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<br>Yellow LEDs = battery state of charge indicators<br>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, No water ingress protection. Met requirements with a warning label. |

**Solar Details**

|                        |                         |
|------------------------|-------------------------|
| PV module type         | Polycrystalline silicon |
| PV maximum power point | 5.5 watts               |

**Battery Details**

|  |                                      |
|--|--------------------------------------|
| Battery replaceability                 | Easily replaceable with common tools |
| Battery chemistry                      | Lithium iron phosphate               |
| Battery package type                   | --                                   |
| Battery capacity                       | 1450 mAh                             |
| Battery nominal voltage                | 12.8 V                               |
| Appropriate battery protection circuit | Pass                                 |

**Product Details**

|                           |                    |
|---------------------------|--------------------|
| Manufacturer name         | Orb Energy         |
| Product name              | Solectric 15       |
| Product model / ID number | --                 |
| Contact information       | info@orbenergy.com |
| Website                   | www.orbenergy.com  |

**SSS Information**

|   |                    |
|---|--------------------|
| Specs sheet expiration date                 | September 30, 2019 |
| Minimum Quality Standards Framework Version | 2017               |
| Revision                                    | 2017.10            |