

Ulita - 12 Volt LED Lamp

1. Overview
2. Efficiency
3. Planning the installation
4. Connecting the Hub
5. Installing the Ulita
6. Operating the Ulita
7. Troubleshooting

Note: The Sundaya Ulitium and Ulita lights are incompatible with each other. Whereas the Ulitium has integrated battery storage & connects directly to a solar panel, the Ulita must connect to a 12 V DC external supply (e.g. a battery). If you wish to expand a Ulitium lighting system you will need more Ulitiums and not Ulita lights - and vice versa.

Overview

The Sundaya Ulita LED lamp looks the same as the Sundaya Ulitium LED lamp, but is significantly different – the Ulita does not contain a battery or solar regulator. This means the Ulita requires an external 12 V DC power supply, e.g. an existing 12 volt solar power system. The Ulita is available in white only, providing 240 Lumens of light output.

Efficiency

The Ulita lamps are 23 times more energy efficient than traditional incandescent bulbs. The Ulita 200 has a light output of 240 Lumen at a rated energy consumption of 2.77 watts. During multiple tests in our labs the Ulita 200 outperformed its own rating, consuming less than 2 watts (between 1.7 and 1.9).

Planning the installation

Like the Ulitium, the Ulita is designed to be suspended from the ceiling. It is very easy to install and it uses the same simple connectors: Bayonet Cables and Distribution Hubs. These components allow you to form an expandable, energy-efficient lighting installation.

Due to their low energy consumption you can use these lights to replace existing lights in an existing 12 V power system without concerns that you overload your system; in fact your system will cope better than it did with the previous lights.

Before you begin installing the Ulitas, please consider where you would like to suspend the lighting in relation to existing 12 volt terminals that you can connect into. Judge the best placement and height for your Ulita to get the light distribution you want for the room.

For a tidy installation, the Distribution Hubs should be placed above the ceiling, at a location such that the distance to each Ulita suits the lengths of the available cables. The cable supplied with each Ulita is 4.8 metres in length. 3.6 metre and 6 metre cables are also available.



Connecting the Hub



Under the roof, place the Hub somewhere between the future locations of the Ulita lamps. You will need some cable to connect between a suitable 12 volt terminal connected to the existing battery power system and the hub. Use cable that is not less than 1mm² and not greater than 5mm² (cross sectional area) and is clearly marked for polarity (+ve and -ve).

To make it easier to connect the cable to the screw terminals of the hub, it is good to crimp appropriate size lugs (preferably forked) onto the cable which will allow you to loosen the screws and slip the open end of the forked lugs under the screws before re-tightening. The positive screw is marked with "+" symbol embossed in the plastic.

Installing the Ulita

At the precise location on the ceiling where you have planned to suspend the Ulita, drill a hole 20 mm in diameter.

Insert the Bayonet Plug of the cable provided, into the port on top of the Ulita. Twist the Bayonet Plug clockwise to lock it in place. Pass other bayonet plug and rest of the cable through the hole in the ceiling you just made. Slip the cable into the Ceiling Cap provided, through a slit on its side.

Maintain the Ulita at desired height. Then fasten Ceiling Cap to the ceiling with screws, covering up the hole on the ceiling. Connect the bayonet plug that has been passed through the ceiling, to any available ports on the Hub4 or Hub5.



The Ulita comes with an inbuilt pull switch. Inside the knob at the end of the pull switch there is a spool for adjusting the cord length up to 1200 mm.

Operating the Ulita

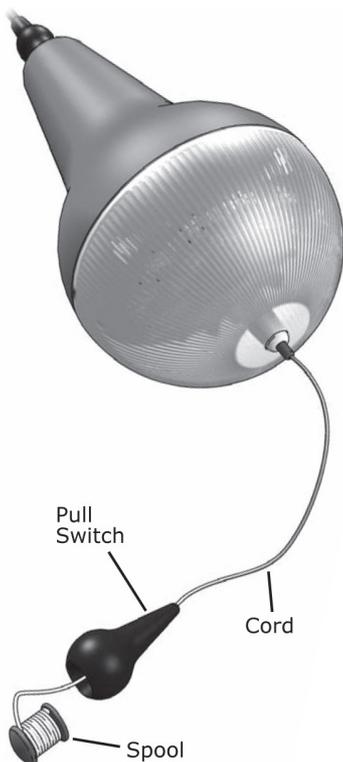
To turn ON the Ulita, tug the pull switch briefly, and the lamp will gradually shine to full brightness (100%). Pull the cord again to dim the light to 50%. Another pull will set it to 10%. Yet another will turn it off.

Note: the Ulita 200 faintly glows in the Off position.

Troubleshooting

If for some reason, you tried switching on the Ulita and it does not want to stay switched on, please follow these troubleshooting steps:

1. Ensure the Switch has been pulled in the correct manner.
2. If the Ulita only stays on for a few seconds, it no longer has enough energy to operate. Allow the battery bank to recharge sufficiently before using it again in the evening (operating voltage 11 - 21 V DC).



RAINBOW POWER COMPANY LTD

Designers and Installers of Solar Systems since 1987

1 Alternative Way (PO Box 20240)

tel: (02) 6689 1430

international: +61 2 6689 1088

email: sales@rpc.com.au

A.B.N. 74 003 323 420

Nimbin NSW 2480 Australia

fax: (02) 6689 1109

international: +61 2 6689 1109

website: www.rpc.com.au

Lic:198555C (NSW). 69172 (Qld)