

A SOLAR Powered

LED Lighting System and Mobile Phone Charger

FOR LOW COST AND INFORMAL HOUSES, REMOTE VILLAGES, FARMING COMMUNITIES & OUTDOOR RECREATION

Features:

19 hours of continuous run-time

Light up **2 rooms of 3 x 3 meters** each

Designed for **5 hours usage every night**

Recharge new generation clever **mobile phone via USB** connector tips as well as older generation mobile phones

Battery and solar charge display status on front panel

Easy to install with **colour coded cable tips and port holes**

Upgradeable to 4 LED lights

Batteries expected life **7 to 10 years**

- 1 x 6 W Solar Panel
- 1 x 6 V 7.2 Ah Lead Crystal Battery
- 2 x 1.3 W LED Light and 2 x Light bulb holder with On & Off switch and 6 m cables
- 1 x Mobile phone charging cable
- 1 x USB Connector tip for clever mobile phones and additional tips for standard type mobile phones
- 4 x Light ports as standard for upgrades

System Upgradeable to 4 LED Lights



Standard 2 Light Configuration

LED Lights

The BettaTwo PLUS; LED bulbs consist of 22 x Light Emitting Diodes, housed in a rugged moulded bulb with a Perspex protective cover, for excellent light distribution. The standard configuration contains 2 LED light bulbs and bulb sockets.

The length of the light cables are 6 meters and can be fitted with a hook against any wooden frame. The bulb holders are fitted with "ON" & "OFF" push switches housed in the bulb sockets.

The brightness of the light is equal to a 60 Watt incandescent light bulb. One LED light will effectively cover a room area of 9 sqm up to 12 sqm. Each LED light uses only 1.3 Watt of energy.

Battery Box

The standard configuration for 2 lights is supplied with 1 x 6 Volt 7.2 Ah lead crystal battery. The moulded battery box can house one or two 7.2 Ah batteries. All battery harness is included and installed in the battery box.

The lead crystal batteries have a shelf life of 2 years, an expected life of 10 years.

It can be recharged up to 3 times faster than traditional deep cycle batteries and can be discharged completely with a successful recovery status thereafter.

The system has an external replacement 4 Amp fuse in the battery box. The system is shipped with no fuse in the fuse holder. To activate the system, the fuse must be inserted into the fuse holder. A spare fuse is included in the pack.

The activation, charging and battery statuses are indicated by the LED indicators.

Solar Charge Controller

The standard 2 light solution got 4 x light ports built-into the solar charge controller.

The intelligent solar charge controller unit is built-into the battery box for ease of installation. All the cabling connectors and jacks are colour coded with blue/red/black to support the "plug and play" concept.

Red = solar panel cable, **Blue** = mobile phone charger cable and **Black** = LED lights cables. The controller also regulates the charge and discharge of the batteries and disables the lights' function during day time to reduce the risk of a flat battery. The controller has 4 x LED light ports, 1 x solar panel port and 1 x mobile phone charger port.

Solar Panel

The standard BettaTwo Plus light solution is supplied with a 6 Watt PV solar panel with a 6 meter cable to connect to the battery box.

Mobile phone recharge subsystem

The system has a blue port on the controller to charge older generation mobile phones via a few popular phone tips supplied. The new generation clever phones (Samsung S4, BlackBerry & I-Phone) can also be charged via the same port by linking the USB connector tip supplied as a standard.

How to upgrade the standard BettaTwo PLUS solution

4 LED Lights: What is required extra?

- 2 x Light Holders and LED Lights
- 1 x Solar Y-Splitter Cable
- 1 x 6 W Solar Panel
- 1 x 7.2 Ah Lead Crystal Battery



"Every One Is Betta Off With A Betta Light"

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