

## 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 **4 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**

All fasteners, bolts & nuts

Batteries expected life **7 to 10 years**

- 1 x 12 W Solar Panel
- 2 x 6 V 7.2 Ah Lead Crystal Battery
- 4 x 1.3 W LED Light and 4 x Light bulb holders with On & Off pull switch and 2 x 6 m cables and 2 x 10 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
- Complete mild steel bracket set to fit solar panel included



**"Every One Is Betta Off With A Betta Light"**

## Standard 4 Light Configuration

### LED Lights

The BetaFour 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 length of the light cables are 2 x 6 meters and 2 x 10 meters. The light socket holders can be fitted against the ceiling or wood or steel roof frames. It is fitted with an "ON" & "OFF" pull switch and is made of porcelain.

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 4 lights is supplied with 2 x 6 Volt 7.2 Ah lead crystal batteries. All battery cabling is included as well as fasteners. The battery box can house 2 x batteries.

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 got an external replaceable 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 on battery box.

### Solar Charge Controller

The standard 4 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 BetaFour Plus light solution is supplied with a 12 Watt PV solar panel with a 10 meter cable to connect to the battery box. Included is a wall mounted bracket with bolts and nuts.

### 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.



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69 Lynburn Rd | Lynnwood Manor | Lynburn Center | Pretoria | South Africa  
Marius Botes: +27 (0) 83 305 1477 | Email: marius.botes@betailights.com  
Tel: +27 (0)12 803 5856 | Fax: 086 508 0183 | www.betailights.com  
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