BettaTwo *PLUS*

A Two LED light solar lighting solution for **Quality, Performance & Longevity**

Also upgradable to a four light **solution**

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LED light bulbs:

LED power	2 x LED bulbs: 32 lux, on working level below bulb, or 1.3W power energy consumption
Operating voltage	DC(6V)
Luminary efficiency	>90%
Effective beam angle	150 deg.
Colour rendering index	Ra>80
Colour temperature	4000 - 5000K
Light colour	Bright White
Operating environment	-20 deg. C ~ 55 deg. C
IP level	IP55
Expected Life span	>50000hr
Fitting type for bulb	E27
Brand	BETTA

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Light bulb holders:

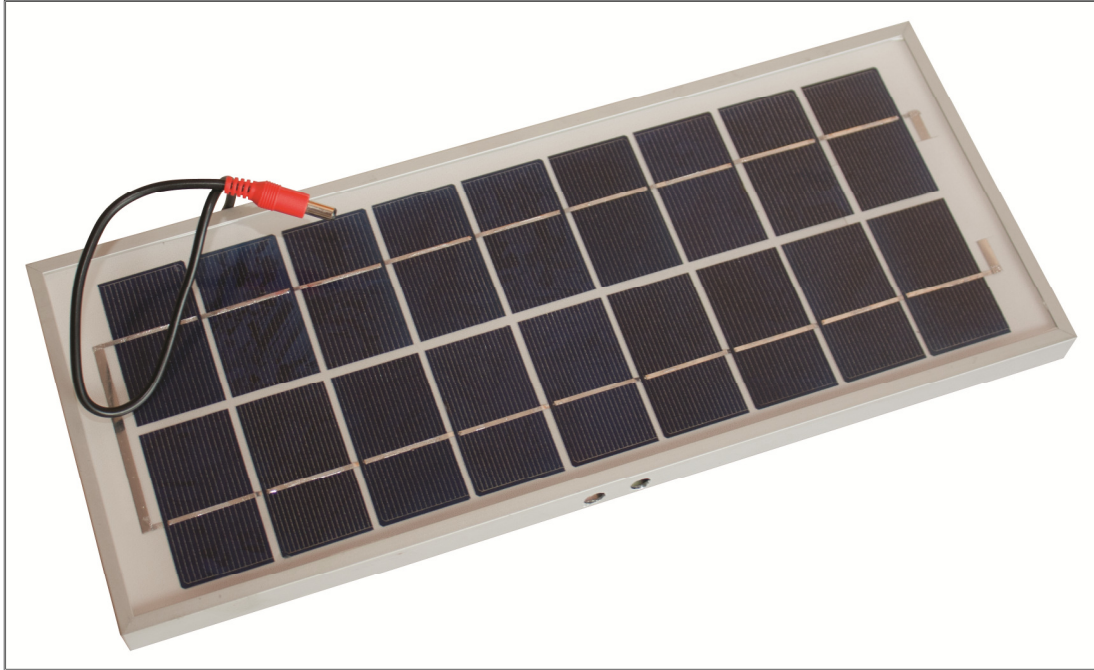| Light switch	Flick switch on light holder
Light socket	E27
Material	Hardened plastic
Length of cables	6m
Mount method	Hang vertical from roof
Fasteners	Included: 3 x hooks to secure light holder to hang from wood structures

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Solar Charge Controller unit:

Type	Intelligent Solar Charge Controller
Operating voltage	DC(6V)
Operating environment	-20 deg. C & - 55 deg. C
IP level	IP55
Life span	>20,000h
Protection 1	Overcharge and over discharge protection
Protection 2	Protect battery from discharge should the user forget to switch lights off during the day
DISPLAY panel	LED type; Battery status with 3 different colours; Solar panel "CHARGE" status & Power ON and OFF status
Fuse holder	External Holder with 4Amp fuse
Standard light ports	4 x Light ports (2 x open and 2 x plugged)
Mobile phone charger port	1 x Mobile phone charger port (blue)
Solar panel port	1 x solar panel port (red)

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Solar Panel:

Type	Solar panel ; 6Watt
IP level	IP65
Operating environment	-40 deg. C to + 55 deg. C
Expected Life	25 Years
Open circuit voltage	DC(10.8V)
Rated current	0.61Amp
Cord length	6m
Bracket to mount solar panel	Mild steel; galvanised fastener with wing-nut to fit solar panel on roof

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Battery:

Type	Deep cycle – lead crystal
Voltage	6V
Amp Hour	1 x 7.2Ah
Operating environment	-40 degrees C ; + 65 degrees C
Life span	7 years
Discharge features	100% DOD without damaging the battery. Expected cycles at 100% DOD is 400, and 2700 at 30% DOD
Shelf life	Up to 3 years

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Mobile phone charging tips:

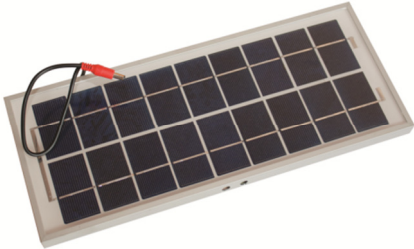| Type	Mobile Phone charging tips
Connection Type	Via charge cable into allocated port (blue)
Identified colour port	blue
Mainstream tips	BlackBerry & USB tips for all new generation mobile phones
General tips	Additional popular tips for older generation mobile phones

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Fasteners:

Type	Standard fastener kit
To fit solar panel	1 x special designed panel bracket 1 x wing nut 1 x zinc roof washer
To fit power pack lights against wooden beams	2 x chipboard screws 8x30mm
To fit power pack against concrete wall	2 x nail in anchor 8x65mm
To fit cables against wooden frames	12 x Cable saddle flat 4mm
To neatly tie cables	6 x cable ties 400x5mm black

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Upgradeable potential:

What is required to upgrade the BettaTwo ^{Plus} with another 2 additional light bulbs?

1. Two Betta LED 6V light bulbs Notes: only the Betta 6V LED 1.3W light bulbs can be used	
2. Two light bulb holders can be added Notes: light bulb holders can also be the ceiling mountemd type with pull switch	
3. 6Watt solar panel must be added to accommodate 2 extra lights Notes: it must be a 6V solar panel from Betta Lights only The **Y**-SPLITTER must be purchased with the solar panel to upgrade the system 1 x panel bracket	
4. Additional 7.2Ah Lead crystal battery must be added to accommodate 2 extra lights Notes: it must be a Lead Crystal battery only and only 7.2Ah 1 x battery connecting cable	