

ENERGY 1



LIGHTING AFRICA

RUGGED AND POWERFUL SOLAR LIGHTING, EASY TO CONFIGURE FOR VARIOUS ENVIRONMENTS AND APPLICATIONS

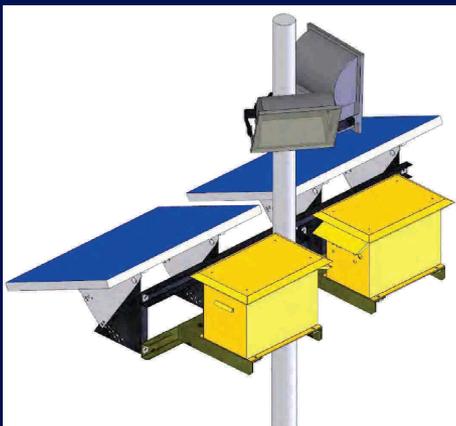
BETTA. 144 SECURITY LIGHT

BETTA 500 AREA LIGHT

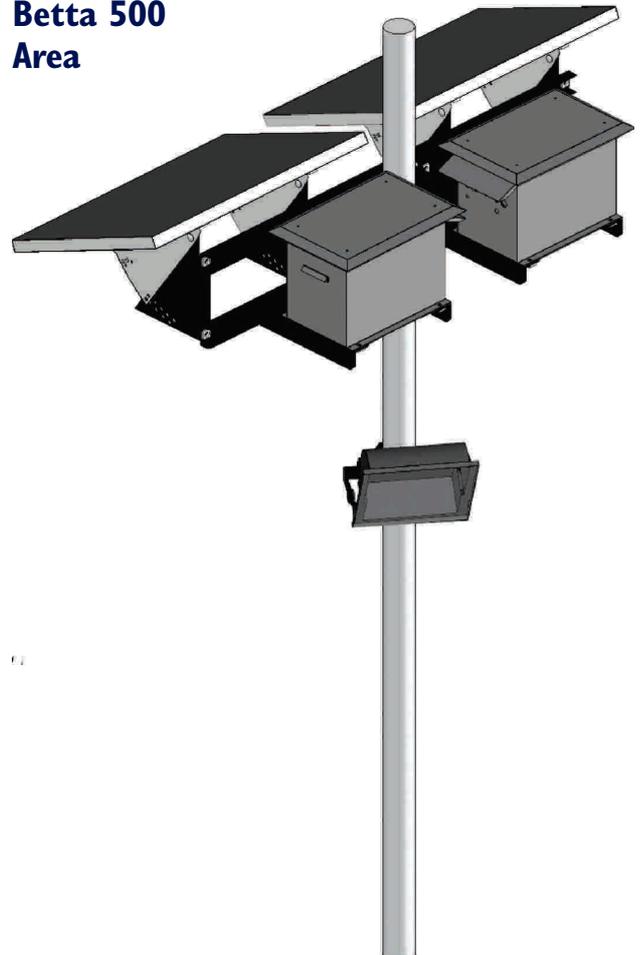
Betta 144
Single



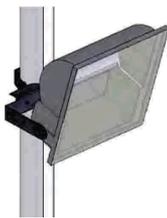
Betta 144
Double



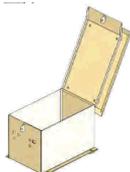
Betta 500
Area



Betta 144 Security



- 144 LED's
- 10Watt Consumption
- 140 Lighting Angle
- Battery Box with Built In Controller *
- Adjustable Tamper Proof Brackets



* Full Details on back of brochure



Betta 500 Area

- 500 LED Diodes
- 27Watt Consumption
- 140 Lighting Angle
- Adjustable Tamper Proof Brackets
- Battery Box with built in Controller *

* Full Details on back of brochure

BETTA. 144 SECURITY LIGHT

• ATTRIBUTES

Betta 144 is a robust external flood light to illuminate external areas and perimeters. It can replace grid-powered lighting or be installed as a green fields solution and compares favorably with the life cycle cost of on-grid solutions. Typical applications are the illumination of security fencing, external areas, parking grounds and garages, walkways, areas not economically serviceable by grid electricity, building and billboards.

Light Distribution

Betta 144 uses 144 LEDs and has a light distribution angle of 140 degrees. Illumination is 25 lux at 6 meters on the centre line.

As a result, a demonstrated area coverage per light is 285 square meters, or a distance between perimeter lighting poles of 30 meters.

Power replenishment and consumption

The power system is optimally balanced and replenishes energy to the batteries through a 45 watt solar panel, while the LEDs consume less than 10 watt. The batteries are charged through sunlight and the charging function is effective, even in cloudy conditions, though at a lower rate.

An indication of the systems robustness is that the lights are fully functional for 54 hours when the charging function is disabled.

Battery Insulation

To protect the batteries against the effects of temperature fluctuations, the batteries are insulated with polyurethane foam boards and a additional battery box roof, thereby extending the battery life significantly.

Panel Orientation

The solar panels are orientated to the optimum direction through the adjustable bracket system. It is designed to capture optimum energy anywhere in the world through changing of the panel angles.

Tamper Proof

The system is easy to install and support. Because of the expensive nature of the batteries and solar panels, effective anti-theft measures are built into the system.

Environment

The applicable system elements are rated to conform to IP65. The brackets are electro galvanised and powder coated to ensure corrosion resistance. The lights and solar panels are hail, wind and excessive temperature fluctuation resistant.

Mounting Pole

The mounting pole should have a top carrying capacity of 60kg and a top diameter of 76mm.

Certifications and Tests

Applicable BETTA 144 system elements carry certifications or OEM tests in respect of: CE; RSA-CEF; IP65; hail resistance; wind resistance and temperature fluctuations. Our supply factories are ISO-9000 certified.

BETTA. 500 AREA LIGHT

• ATTRIBUTES

Betta 500 is a robust external flood light used to illuminate areas typically off the electricity grid. Applications are the illumination of security fencing, external areas, parking grounds and garages, military environments, walkways, areas not economically serviceable by grid electricity, building and billboards.

Light Distribution

Betta 500 uses 500 LED diodes and has a light distribution angle of 140 degrees. Illumination is 50 lux at 5 meters on the centre line.

As a result, a demonstrated area coverage per light is 300 square meters with a distance of 30 meters.

Power replenishment and consumption

The power system is optimally balanced and replenishes energy to the batteries through a 120 watt solar panel, while the LEDs consume 27 watt.

An indication of the systems robustness is that the light will be fully functional for 36 hours when the charging function is disabled and replenish the battery power in 2,7 hours of sunlight.

Batteries

The system makes use of 4 x 22 AH 12 volt led crystal batteries. These batteries can handle heat up to 65 degrees C, can be depleted 100% and will take charge thereafter, recharge 2-5 time quicker than other led acid battery technologies with a life expectancy of 10 years.

Tamper Proof

The system is easy to install by making use of a single size spanner only. Because of the expensive nature of the batteries and solar panels, effective anti-tamper measures are built into the system. The bracket system is available in stainless steel or mild steel and is E-coated and powder coated against any form of corrosion.

Controller

The 15 AMP controller can be set in various modes such as a 2 hour, 4 hour and 8 hour run time or switch the lights on and off automatically according to day and night reading.

Mounting Pole

The mounting pole should have a top carrying capacity of 60kg and a top diameter of 76mm.

The system is supplied with all components and fasteners as a workable solution to the distributor channel without the pole.

Installers will quote the client for a full system including the pole.

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