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PRODUCT DATA SHEET

Challenge Solar 1x30W

Code : 1570182N

PRODUCT FAMILY

Urban architectural SOLAR supplied with Challenge 1x30W (IP55) light fitting, head pole for Ø102 mm poles complete with single adjustable solar panel 1x100Wp, fibreglass battery box including n.1 lead acid battery 12V 100Ah and an electronic circuit board managing the charge/discharge of the batteries and the on/off of the 1x30W Challenge LED light fitting.

MATERIAL CHARACTERISTICS (LIGHT FITTING)

Extruded aluminium body EN AW 6026, manufactured with numerical control machines and then anodized. The fixture body works also as a heat sink. Black moulded fibreglass nylon covering carter. 2mm tick C-shaped hot-dip galvanized steel brackets 75 µm UNI EN 1461.

LIGHTING CHARACTERISTICS ASYMMETRIC OPTICS

Visual LEDIL lenses in transparent optical grade silicon with precise light control and high efficiency.

The material used is highly UV and heat resistant and has "self-welding" qualities guaranteeing a high IP rate.

Light flux projected with a "bat-wing" distribution, with 67° beam angle.

Suitable for correct lighting of main and secondary roads.

Immediately ON at 100% of light flux (managed by the electronic circuit board).

Lamps are in a fixed position.

Cut-off light fitting conform to regional laws against light pollution.

MATERIAL CHARACTERISTICS (ACCESSORIES)

Pole-top connection arm Ø108mm in hot dip galvanized steel, conform to DIN norms (thickness 75µm UNI EN 1461) complete with accessories to fix a fibreglass battery box a solar panel. Mounting on poles Ø102 mm or on Challenge Solar System pole.

Colour: Black

Silicone gaskets

A2 Stainless steel screws.

WIRING CHARACTERISTICS

SOLAR PANEL

1x100Wp silicon monocrystalline solar panel with highly transmittant tempered glass (4mm thick) allowing optimal light permeability without affecting the mechanical strength. Hail-resistant (hail Ø25mm a 75K/h). Aluminium frame to enhance the panel resistance to wind and snow load.

Panel fixing system adjustable according to the Azimut (panel orientation angle with respect to the South) and Tilt parameter (angle from panel to horizontal plane) in order to maximize the performance of the photovoltaic system.

BATTERY

1 Lead acid gel AGM battery 12V 100Ah (1200Wh), with 20hrs discharge time and approx. 3800 cycles.

Dimensions: 306x168x211mm

Weight: 28.3 Kg

Temperature range: -20°C+50°C

LED

Monochromatic FORTIMO SLM PHILIPS 1x23.8W, neutral white NW 4000K, max 3716 lm

COMPUTERIZED ELECTRONIC CIRCUIT BOARD

Computerized electronic circuit board PWM managing the on/off and charge of the battery Automatic ON after 5 minutes of total absence of solar exposure

Running modes:

The fixture works 8 hours in total absence of solar exposure.

Sunset to sunrise: ON after 5 minutes of total absence of solar exposure

ACCESSORIES

- Optional pre-set by factory

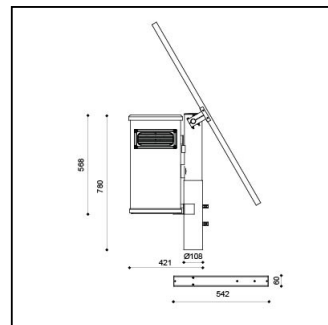
Customized ECB setting

Rev 01-30/03/2016

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Details

- Conformity with CEE directives
- Class III
- Mounting on normal flammable surface
- Conforms to all regional/local laws against light pollution
- IP 55



1x23,8W



IP55

