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PRODUCT DATA SHEET

Stud Solar 2

Code : 1879282M

PRODUCT FAMILY

Urban architectural SOLAR (stand-alone) for use with Ø60mm pole top (IP65), supplied with integrated solar tilted panel, battery and computer.

MATERIAL CHARACTERISTICS

Body in die-cast aluminium EN AB 46100 highly castable and flowable to prevent formation of air bubble and allow the filling of castings with thin walls, treated by cleaning, degreasing and brushing.

Thermosetting powder coating based on carboxylated saturated polyester resins specifically selected for their high resistance to weathering, the hardener without TGIC, and pigments with high stability to light and heat. Degreasing treatment and phosphating with zinc salts followed by passivation with demineralized water and oven drying at 110°C. Then thermo-polymerization at 200°C.

Access door/ gear tray and upper cover made of thermosetting resin (BMC), then painted with bi-component epoxy primer, noted for its resistance to corrosion followed by painting with matt bi-component polyurethane enamel (hydroxylate resin-based, and modified for high elasticity and adhesion), formulate in order to achieve maximum resistance to impacts and corrosion even in marine environments.

Heat sink in thick, anodised aluminium

Diffuser in thick (4mm) transparent PMMA

Colour: Anthracite

Gaskets in silicone

Screws in stainless steel INOX A2

LIGHTING CHARACTERISTICS

Lenses in highly transmittant PMMA with light beam 65°, designed to obtain a round symmetrical light throw

Reflector in a concentric crown shape made from NYLON/ FIBREGLASS30% white colour, snaps into place without screws. LED optics for a round symmetrical, predominantly frontal light throw, guaranteeing a good level of performance at elevated distances.

Light source (LED's) is in a fixed position.

Fixture conforms with local and international dark sky requirements with emission 0.49cd/Klm for angles 90°, Rn 0.04% - 67.09%.

WIRING CHARACTERISTICS

SOLAR PANEL

Ø700 mm Monocrystalline silicon solar panel 50Wp tilted at a 20° angle, circular in shape, with tempered glass highly transmittant, 4mm thickness, and resistant to hail: Ø25mm at 75km/h.

LED's

16 monochromatic CREE LED's 1W 142Lm each, 4000K° (NW), guaranteed for 50.000 hours.

Total consumption 16W max.

When the fitting starts functioning the light output is 1136Lm, and it can raise up to max. 2272Lm.

Each LED is mounted on an individual module, in a 2 crowns formation.

The modules are connected in 2 series of 8 each, via a quick release connector, and supplied by two independent drivers.

In the case of malfunction, one of the following situations may have occurred:

- one LED module malfunctions, however the other modules remains functional keeping the light fitting on

- one complete LED crown malfunctions, however the other crown remains functional keeping the light fitting on

Each LED module is fixed directly onto the heat sink with n.2 screws and thermo-conductive silicon paste.

Easily extractable supporting plate for battery and electronic circuit board in s.steel 304L

BATTERY

Weatherproof 230Wh/ 15.3Ah Lithium Ion Battery, with no memory effect, placed inside the body of the fitting.

It interacts directly with the electronic circuit board, to communicate data concerning the

charge/discharge cycles, the charge level, and the temperature. It has a display with 5 LED indicators for immediate visual check of the charge level and operation state

ELECTRONIC CIRCUIT BOARD

The computerised electronic circuit board 3 step-MPPT manages the on/off of the light fitting, and the charge/discharge of the battery. It allows to select two operating modes:

- NORMAL, in which the luminosity of the LED's is fixed, independently from the level of charge of the battery.

- SMART, in which the luminosity of the LED's is variable, and priority is given to the nightly guarantee (2 or 3 nights). The smart mode adjusts the luminous output based on the nightly guarantee and the charge level of the battery.

After NORMAL or SMART operating mood has been selected, it is necessary to choose the nightly duration of the fitting (8 hours, 10 hours, 4+2 hours, from sunset to sunrise); the system turns LEDs on automatically, one minute after sunset.

The nightly duration option of 4 + 2 hours indicates that the fitting switches on at sunset for 4 hours, then goes to stand-by mode (lowered to 25% of luminous output) until 2 hours before sunrise, when it goes back on at maximum available luminosity. This is possible because the electronic circuit board memorises data on the hours of light/darkness, and then calculates automatically an average based on either 3, 7, and 15 previous days. Thanks to the calculation of this average, the electronic circuit board manages the on, standby and off, and it anticipates accurately future day/night lengths; based on the calculation of the day/nights lengths, it also increases/decreases the light output of 1 percentage point every 3 days.

In both NORMAL and SMART operating mood, the battery will shut off when only 20% storage remains.

All of the above options can be selected directly on each fitting through simple dip switches found on the electronic circuit board that can be reached by opening the door located in the body of the fitting. Therefore users can set the different operating / running moods according to their needs.

Factory standard programming is SMART mode, 8 hour nightly duration and a 3 nights guarantee.

INSTALLATION AND ORDINARY MAINTENANCE CHARACTERISTICS

Fixture for Ø60mm pole top installation, to be fixed to the pole through n.2 dowels (included)

MEASUREMENT CHARACTERISTICS

Fixture with a diameter of 735mm, and a height of 1075mm.

ACCESSORIES:

-Optional, factory programmed

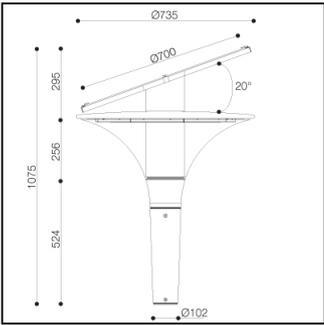
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Details

- Conformity with CEE directives
- Class III

- Mounting on normal flammable surface
- Against lighting pollution
- Resistant to atmospheric agents
- Inalterable to ultraviolet radiations
- IP 65



16W

CE						IP65
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