

Solution for solar street light

ARMATURE LED 42 / 56 Watt (Power LED)



Street lighting
 certified IP66 class II

Photovoltaic panel
 polycrystalline
 135 Watt

Top of pole box in aluminum for
 battery and control card

Reflector

Hot dip galvanised
 single lighting arm
 with a 360° frame rotation



Armature Power LED 42 Watt



Armature Power LED 56 Watt

SATI SOLAR STREET LIGHT

The architecture of the photovoltaic KIT is composed mainly of four elements:

1. Photovoltaic generator.
2. Energy storage system.
3. Lamp.
4. Control card.

Thanks to a microprocessor, the control card enables interfacing of the various components according to operation requirements.

Pole head structure:

- Height 1,20 m.
- Arm length 70 cm, 15°.
- Hot dip Galvanised iron pipe 4 mm.
- Internal wiring cable 4 x 2,5 mm²/2 x 4 mm².
- Single and double arm.
- Provided for Ø 89 mm poles.



- Aluminium frame.
- Steel bolts and screws.
- Space for holding 1 or 2 AGM batteries .
- Frame for 1 or 2 135-watt photovoltaic modules.
- 360° frame rotation.
- Ventilation fins.
- Inclination 45° (30° or 50° on request).

Photovoltaic Panel:

The aluminium frame can receive one or two panels according to the required power.

- Dimensions (mm): 1500 (± 2,5) x 668 (± 2,5) x 46
- No. cells per module: 36.
- Cell technology: Polycrystalline.
- Rated power P under STC: 135 W.
- Max. difference P: +5 / -5 %.
- Voltage - rated capacity: 17,7 V.
- Current - rated capacity: 7,63 A.
- No-load voltage: 22,1 V.



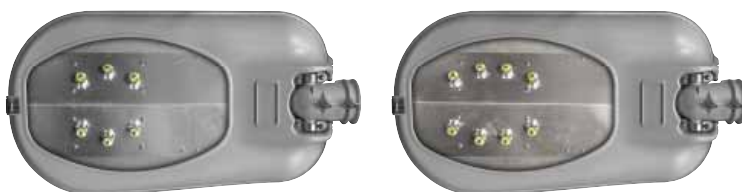
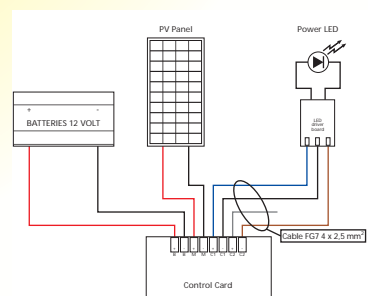
Storage system:

- The ENERLYTE Series 100 Ah hermetic batteries, with AGM technology, are designed for use in cycle and as well as backup operation.
- These batteries are maintenance-free and can work in a wide temperature range.
- The AGM solar batteries are designed to meet the particular needs of photovoltaic and wind-powered systems (very long life up to 10 years, at 20° C).



Control Card:

- The control Card is the "brain" of the system and enables optimum management the battery charge and discharge.
- The multi tension control card (12 - 24 VDC) controls the regulation to optimize the charge of one/two* batteries through one/two* photovoltaic modules; * (in case of having a double illumination street light with Sodium or Power LED).
- Set up for installing a Wi-Fi connection card (optional) to enable the programming of the illumination by remote controlling from the PC and standing at the bottom of the pole.
- The Software installed, enable the management of the illumination time according to specific hours or dusk / dawn.



Armature and lighting elements:

- Street light armature certified IP 66 Class II.
- High efficiency cut-off street application optics.
- Flat glass and adjustable positioning anti-blinding.
- Armature for Power LED lamps with the following combinations:
 - 6 Power LED (42 WATT) color 5600° K.
 - 8 Power LED (56 WATT) color 5600° K.
- Illumination intensity control according to the battery tension to optimize the lamps function.

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