SOLAR
HIGH EFFICIENCY
LED STREET LUMINAIRES
MADE IN THE EU

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TECHNICAL DATA

Luxtella solar street luminaires are technical luminaires that are designed to fulfil the most demanding light calculation scenes like S, ME and CE classes with different adaptation to local lighting standards.

**Characteristics of Driver + Charge controller unit**

- 24 V input
- Dimming options (not possible with 400 and 500 mA version):
  - Possibility to define dimming level for first period after turn on
  - Possibility to define dimming level for second period after turn on
  - Possibility to define dimming level for third period after turn on
- Possibility to set minimum discharging voltage from 21,6 - 23,6 V
- Lamp is switched on/off in accordance with charging voltage limit 6 - 16 V
- Overvoltage charging protection at 29,2 V
- Programming via IR remote controller
- Unit is usually installed outside the luminaire

**Mechanical characteristics**

- Housing made of aluminium
- Top pole or side entry. As a standard equipped with 60 mm pole connector, 76 mm as an option
- Possibility to change inclination from -15° up to +15° with step of 5°
- As a standard equipped with 0,5 m connecting cable, longer cable upon request.
- Finish made of anodisation and dust painted with epoxy paint thermal treatment to ensure long-term environmental protection against all weather conditions. RAL 9006 or upon request.
- All screws are made of stainless steel
- All gaskets are made of ozone and UV resistant silicone for IP 66 protections
- Certified for IK 10

**LEDs**

We use highly efficient & reliable Cree LEDs which ensure long term operation for the lifetime of the luminaire and highest lm/w efficiency in the industry. In the spreadsheet below the total – system W is stated. Below power (W) of lamp is a result in the working mode of lamp (app. 1,5h after a lamp is turned on). Below lumen is LED lumen. System lumen is available for each optic in IES files and is lower than the LED lumen by app. 5 % (depending on the type of lens). Different colour temperatures are available upon request. The below results in the table are written for 4000 K and 3000 K (average results).

*Upon request, we can supply also Luxtella with driving currents between the mA stated in the above spreadsheet!*

<table>
<thead>
<tr>
<th>No. LED</th>
<th>Current [mA]</th>
<th>Sys power [W]</th>
<th>4000K [lm]</th>
<th>3000K [lm]</th>
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<tr>
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<td>400</td>
<td>15</td>
<td>2400</td>
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<td>2700</td>
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OPTICAL DATA

Optical characteristics
- As a standard we are using PMMA that is 100 % UV resistant which prevents yellowing over the entire life time of the lenses.
- Polycarbonate lenses ensure high impact resistance.
- Photometric IES files are available upon request.

Battery characteristics:
- Nominal Voltage: 24 V DC
- Type: Lithium LiFePO4
- Capacity: 35 Ah (840 Wh), 50 Ah (1200 Wh), 75 Ah (1800 Wh), 100 Ah (2400 Wh)
- No. of cycles: min. 2000
- Montage: On bracket behind solar panel
- Weight: 35 Ah - 9 kg, 50 Ah - 15 kg, 75 Ah - 20 kg, 100 Ah - 26 kg
- Dimensions: 35 Ah - (l x w x h) 37 x 28 x 6,5 cm
  50 Ah - (l x w x h) 41 x 32 x 7 cm
  75 Ah - (l x w x h) 40 x 32 x 9 cm
  100 Ah - (l x w x h) 40 x 32 x 11 cm

Solar panel characteristics: STC (AM1.5, 1000 W/m², 25°C)
- Type: Multicrystalline
- Nominal power: 265 W
- Short Circuit Current: 9,0 A
- Open Circuit Voltage: 39,3 V
- MPP Current: 8,5 A
- MPP Voltage: 31,2 V
- Solar Cell Efficiency: 18,1 %
- Module Efficiency: 16,2 %
- Power Output tolerance: 0/+5 W
- Dimensions: (l x w x h) 165 x 99 x 4 cm
- Weight: 18,5 kg
MECHANICAL DATA

12 LED lamp

- Gross weight: 5.5 kg, Net weight: 5 kg, Wind area: 0.028 m²
- Box dimension: 54 x 30 x 10 cm, Full euro pallet dimension: 64 units: 80 x 120 x 150 cm

24 LED lamp

- Gross weight: 7.5 kg, Net weight: 7 kg, Wind area: 0.035 m²
- Box dimension: 75 x 30 x 10 cm,
- Full euro pallet dimension: 48 units: 80 x 120 x 150 cm

Operating temperature from -40°C up to 55°C.
Our standard warranty (acc. warranty conditions) is 5 years but the warranty may be extended for up to 10 years.

Upon request, we are able to design a complete kit with a battery, solar panels and all the needed mechanical construction below the panel. Usually combine this with a 250 W solar panel and 35 Ah, 50 Ah or higher capacity flat lithium batteries.

The manufacturer reserves all rights to make changes in the materials and components used in its products. All data is subject to change without prior notice. The tolerance for all the given data is 10%.

Luxtella is the brand name of luminaires produced by

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