



All-in-one Solar street light range up-to 12000 Lumen.

SmartBright All-in-one Solar Street Light

Integrated solar street light with Lithium Ferro Phosphate battery, solar panel and charger built into the luminaire. Independently tilt-able LED source and pole mounting bracket allows light beam to focus on road, and solar panel towards the sun. Microwave based motion sensor for optimizing battery autonomy.

Benefits

- Brings light to areas without access to electric grid
- Saves energy
- Preserves landscape as no trenching for cabling required
- Environment friendly
- Sturdy construction for long life

Features

- High luminous efficacy up-to 150 lm/Watt to maximize battery performance
- Replaceable Lithium Ferro Phosphate battery for long life and hassle free operations.
- MPPT charge controller for maximum efficiency
- Independently tilt-able LED source and pole mounting bracket allows light beam to focus on road, and solar panel towards the sun
- Factory set dimming profile along with microwave sensor for run time maximization.

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Application

- Class A & B roads
- Rural areas
- Parks, pedestrian path lighting
- Industries, office, schools
- Shopping centers, corporate campuses, plazas

Versions



BRP110 5k Lum



BRP110 8500 Lum



BRP110 12000 Lum

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Application conditions

| | |
|--|---|
| Ambient temperature range for charging | 0 to +45 °C |
| Ambient temperature range for discharging (when light is on) | -20 to +50 °C |
| Ambient temperature range | -20 to +50 °C |
| Battery location | Inside Luminaire |
| Grid connection type | Off grid |
| Autonomy | up to 24 h |
| Solar dimming profile | First 2 Hrs - On motion : 100%, without motion :30% ; Next 3 Hrs - On motion : 60%, without motion :20% ; Next 6 Hrs On motion : 30%, without motion :10% ; Rest of the Night: On motion : 50%, without motion :30% |

Approval and application

| | |
|-------------------------|------|
| Ingress protection code | IP65 |
|-------------------------|------|

Controls and dimming

| | |
|-----------------|--------------|
| Dimmable | Yes |
| Configurability | Configurable |

Operating and electrical

| | |
|---------------------------------------|-------------------------|
| Battery charging & discharging cycles | 2000 |
| Battery type | Lithium Ferro Phosphate |
| Charge controller type | MPPT |
| Panel type | Mono crystalline |

Initial performance (IEC compliant)

| | |
|-------------------------------|--------|
| Init. Corr. Color Temperature | 5700 K |
| Init. Color Rendering Index | >70 |

Operating and electrical (1/2)

| Order Code | Full Product Name | Battery ampere | Battery voltage | Charge controller | Panel peak wattage |
|--------------|-------------------|----------------|-----------------|-------------------|--------------------|
| | | hour | | wattage | |
| 911401863681 | BRP110 LED50/757 | 24 Ah | 12.8 V | 35 W | 50 W |
| 911401863781 | BRP110 LED85/757 | 42 Ah | 12.8 V | 60 W | 90 W |
| 911401863881 | BRP110 LED120/757 | 30 Ah | 25.6 V | 80 W | 120 W |

Operating and electrical (2/2)

| Order Code | Full Product Name | Panel voltage |
|--------------|-------------------|---------------|
| 911401863681 | BRP110 LED50/757 | 18 V |
| 911401863781 | BRP110 LED85/757 | 18 V |

| Order Code | Full Product Name | Panel voltage |
|--------------|-------------------|---------------|
| 911401863881 | BRP110 LED120/757 | 36 V |

Mechanical and housing

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| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|--------------|-------------------|----------------|----------------|---------------|
| 911401863681 | BRP110 LED50/757 | 95 mm | 935 mm | 380 mm |
| 911401863781 | BRP110 LED85/757 | 95 mm | 1485 mm | 380 mm |

| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|--------------|-------------------|----------------|----------------|---------------|
| 911401863881 | BRP110 LED120/757 | 161 mm | 1321 mm | 525 mm |

