



All-in-one solar street light range up-to 12,000 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. The independently tilt-able LED source and pole-mounting bracket allow the light beam to focus on the road, and the solar panel to face the sun. Microwave-based motion sensor for optimising 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 maximise battery performance
- Replaceable Lithium Ferro Phosphate battery for long life and hassle free operations.
- MPPT charge controller for maximum efficiency
- The independently tilt-able LED source and pole-mounting bracket allow the light beam to focus on the road, and the solar panel to face the sun
- Factory-set dimming profile along with microwave sensor for run time maximisation.

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Application

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

Versions



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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
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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. Colour Temperature	5700 K
Init. Colour rendering index	>70

Operating and Electrical (1/2)

Order Code	Full Product Name	Battery ampere	Battery voltage	Charge controller	Panel peak
		hour		wattage	wattage
50821700	BRP110 LED50/757	24 Ah	12.8 V	35 W	50 W
50822400	BRP110 LED85/757	42 Ah	12.8 V	60 W	90 W
50823100	BRP110 LED120/757	30 Ah	25.6 V	80 W	120 W

Operating and Electrical (2/2)

Order Code	Full Product Name	Panel voltage
50821700	BRP110 LED50/757	18 V
50822400	BRP110 LED85/757	18 V

Order Code	Full Product Name	Panel voltage
50823100	BRP110 LED120/757	36 V

Mechanical and Housing

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Order Code	Full Product Name	Overall height	Overall length	Overall width
50821700	BRP110 LED50/757	95 mm	935 mm	380 mm
50822400	BRP110 LED85/757	95 mm	1485 mm	380 mm

Order Code	Full Product Name	Overall height	Overall length	Overall width
50823100	BRP110 LED120/757	161 mm	1321 mm	525 mm

