



# 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.

# SmartBright All-in-one Solar Street Light

## 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

# SmartBright All-in-one Solar Street Light

## 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. Color Temperature	5700 K
Init. Color Rendering Index	>70

## Operating and Electrical (1/2)

Order Code	Full Product Name	Battery ampere	Charge controller		Panel peak
		hour	Battery voltage	wattage	wattage
911401863681	BRP110 LED50/757	24 Ah	12.8 V	35 W	50 W
911401863981	BRP110 LED50/757 CN	24 Ah	12.8 V	35 W	50 W
911401863781	BRP110 LED85/757	42 Ah	12.8 V	60 W	90 W
911401864081	BRP110 LED85/757 CN	42 Ah	12.8 V	60 W	90 W
911401863881	BRP110 LED120/757	30 Ah	25.6 V	80 W	120 W
911401864181	BRP110 LED120/757 CN	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
911401863981	BRP110 LED50/757 CN	18 V
911401863781	BRP110 LED85/757	18 V

Order Code	Full Product Name	Panel voltage
911401864081	BRP110 LED85/757 CN	18 V
911401863881	BRP110 LED120/757	36 V
911401864181	BRP110 LED120/757 CN	36 V

## Mechanical and Housing

## SmartBright All-in-one Solar Street Light

Order Code	Full Product Name	Overall height	Overall length	Overall width
911401863681	BRP110 LED50/757	95 mm	935 mm	380 mm
911401863981	BRP110 LED50/757 CN	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
911401864081	BRP110 LED85/757 CN	95 mm	1485 mm	380 mm
911401863881	BRP110 LED120/757	161 mm	1321 mm	525 mm
911401864181	BRP110 LED120/757 CN	161 mm	1321 mm	525 mm

