



# All-in-one Solar street light range up-to 18000 Lumens. Offgrid and Hybrid options.

## SmartBright All-in-one Solar Street Light

Integrated solar street light with Lithium Ferro Phosphate battery, solar panel and controller 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

# SmartBright All-in-one Solar Street Light

## Features

- High luminous efficacy up-to 185lm/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 module and pole mounting bracket allows light beam to focus on road, and solar panel towards the sun
- Offgrid and Hybrid types are available. HY in the product description means Hybrid version that can be connected with AC power.
- 500hours salt spray testing pass
- Factory set dimming profile along with microwave sensor for run time maximization.

## Application

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

## Versions



BRP110 G2



BRP110 G2



BRP110 G2



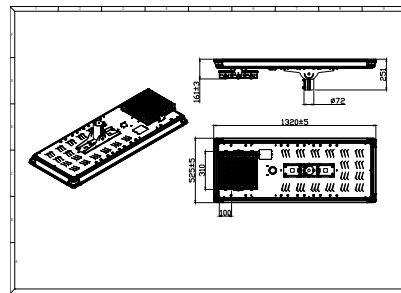
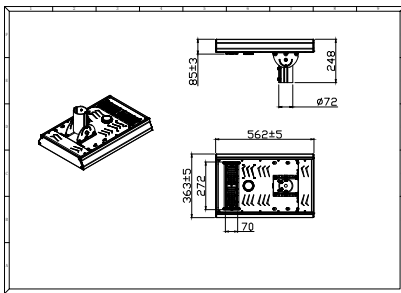
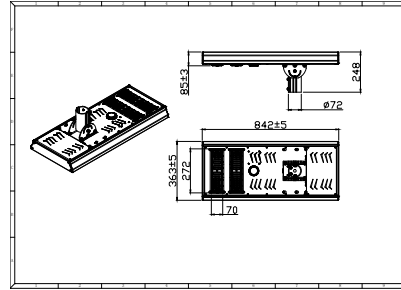
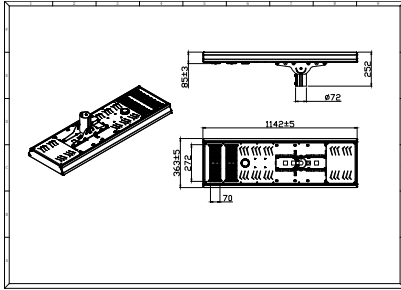
Solar Street Lights



BRP110 G2

# SmartBright All-in-one Solar Street Light

## Dimensional drawing



TYPE	W(mm)	L(mm)	H(mm)
5000lm	363	562	85
8500lm	363	842	85
12000lm	363	1142	85
18000lm	525	1321	161

# SmartBright All-in-one Solar Street Light

## Light Technical

Color rendering index (CRI)	>70
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## Operating and Electrical

Battery charging & discharging cycles	2000
Charge controller type	MPPT
Panel type	Mono crystalline

## Controls and Dimming

Dimmable	Yes
Configurability	Configurable
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%

## Mechanical and Housing

Battery location	Inbuilt
Housing Color	RAL7040
Ingress protection code	IP65

## Approval and Application

Ambient temperature range	0 to +50 °C
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## Application Conditions

Ambient temperature range for charging	0 °C to 50 °C
Ambient temperature range for discharging (when light is on)	-10 °C to 60 °C

## Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)
911401834102	BRP110 LED120/757 G2	5700 K
911401834202	BRP110 LED180/757 G2	5700 K
911401878602	BRP110 LED85/757 G2 HY Solar	5700 K
911401879002	BRP110 LED85/740 G2 HY Solar	4000 K
911401879402	BRP110 LED85/730 G2 HY Solar	3000 K
911401833902	BRP110 LED50/757 G2	5700 K
911401878502	BRP110 LED120/757 G2 HY Solar	5700 K
911401878902	BRP110 LED120/740 G2 HY Solar	4000 K
911401879302	BRP110 LED120/730 G2 HY Solar	3000 K
911401878702	BRP110 LED50/757 G2 HY Solar	5700 K
911401879102	BRP110 LED50/740 G2 HY Solar	4000 K
911401879502	BRP110 LED50/730 G2 HY Solar	3000 K
911401878402	BRP110 LED180/757 G2 HY Solar	5700 K
911401878802	BRP110 LED180/740 G2 HY Solar	4000 K
911401879202	BRP110 LED180/730 G2 HY Solar	3000 K
911401834002	BRP110 LED85/757 G2	5700 K

## Operating and Electrical (1/2)

Order Code	Full Product Name	Battery		Battery voltage	Cable connection
		ampere hour	Battery type		
911401834102	BRP110 LED120/757 G2	72 Ah	LiFePO4	6.4 V	-
911401834202	BRP110 LED180/757 G2	30 Ah	LiFePO4	25.6 V	-

Order Code	Full Product Name	Battery		Battery voltage	Cable connection
		ampere hour	Battery type		
911401878602	BRP110 LED85/757 G2 HY Solar	18 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401879002	BRP110 LED85/740 G2 HY Solar	18 Ah	Lithium Ferro Phosphate	12 V	Excluded

## SmartBright All-in-one Solar Street Light

Order Code	Full Product Name	Battery ampere hour	Battery type	Battery voltage	Cable connection kit
911401879402	BRP110 LED85/730 G2 HY Solar	18 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401833902	BRP110 LED50/757 G2	60 Ah	LiFePO4	3.2 V	-
911401878502	BRP110 LED120/757 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401878902	BRP110 LED120/740 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401879302	BRP110 LED120/730 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401878702	BRP110 LED50/757 G2 HY Solar	12 Ah	Lithium Ferro Phosphate	12 V	Excluded

Order Code	Full Product Name	Battery ampere hour	Battery type	Battery voltage	Cable connection kit
911401879102	BRP110 LED50/740 G2 HY Solar	12 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401879502	BRP110 LED50/730 G2 HY Solar	12 Ah	Lithium Ferro Phosphate	12 V	Excluded
911401878402	BRP110 LED180/757 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	25.6 V	Excluded
911401878802	BRP110 LED180/740 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	25.6 V	Excluded
911401879202	BRP110 LED180/730 G2 HY Solar	24 Ah	Lithium Ferro Phosphate	25.6 V	Excluded
911401834002	BRP110 LED85/757 G2	54 Ah	LiFePO4	6.4 V	-

### Operating and Electrical (2/2)

Order Code	Full Product Name	Charge controller wattage	Grid connection type	Panel peak wattage	Panel voltage
911401834102	BRP110 LED120/757 G2	-	Off grid	80 W	13 V
911401834202	BRP110 LED180/757 G2	-	Off grid	125 W	34.5 V
911401878602	BRP110 LED85/757 G2 HY Solar	42 W	Hybrid	55 W	18 V
911401879002	BRP110 LED85/740 G2 HY Solar	42 W	Hybrid	55 W	18 V
911401879402	BRP110 LED85/730 G2 HY Solar	42 W	Hybrid	55 W	18 V
911401833902	BRP110 LED50/757 G2	-	Off grid	35 W	12 V
911401878502	BRP110 LED120/757 G2 HY Solar	65 W	Hybrid	80 W	18 V
911401878902	BRP110 LED120/740 G2 HY Solar	65 W	Hybrid	80 W	18 V
911401879302	BRP110 LED120/730 G2 HY Solar	65 W	Hybrid	80 W	18 V

Order Code	Full Product Name	Charge controller wattage	Grid connection type	Panel peak wattage	Panel voltage
911401878702	BRP110 LED50/757 G2 HY Solar	27 W	Hybrid	35 W	18 V
911401879102	BRP110 LED50/740 G2 HY Solar	27 W	Hybrid	35 W	18 V
911401879502	BRP110 LED50/730 G2 HY Solar	27 W	Hybrid	35 W	18 V
911401878402	BRP110 LED180/757 G2 HY Solar	92 W	Hybrid	125 W	34.5 V
911401878802	BRP110 LED180/740 G2 HY Solar	92 W	Hybrid	125 W	34.5 V
911401879202	BRP110 LED180/730 G2 HY Solar	92 W	Hybrid	125 W	34.5 V
911401834002	BRP110 LED85/757 G2	-	Off grid	55 W	14 V

### Controls and Dimming

## SmartBright All-in-one Solar Street Light

Order Code	Full Product Name	Autonomy
911401834102	BRP110 LED120/757 G2	- hour(s)
911401834202	BRP110 LED180/757 G2	- hour(s)
911401878602	BRP110 LED85/757 G2 HY Solar	-
911401879002	BRP110 LED85/740 G2 HY Solar	-
911401879402	BRP110 LED85/730 G2 HY Solar	-
911401833902	BRP110 LED50/757 G2	- hour(s)
911401878502	BRP110 LED120/757 G2 HY Solar	-
911401878902	BRP110 LED120/740 G2 HY Solar	-

Order Code	Full Product Name	Autonomy
911401879302	BRP110 LED120/730 G2 HY Solar	-
911401878702	BRP110 LED50/757 G2 HY Solar	-
911401879102	BRP110 LED50/740 G2 HY Solar	-
911401879502	BRP110 LED50/730 G2 HY Solar	-
911401878402	BRP110 LED180/757 G2 HY Solar	-
911401878802	BRP110 LED180/740 G2 HY Solar	-
911401879202	BRP110 LED180/730 G2 HY Solar	-
911401834002	BRP110 LED85/757 G2	- hour(s)

### Mechanical and Housing

Order Code	Full Product Name	Overall height	Overall length	Overall width
911401834102	BRP110 LED120/757 G2	85 mm	1,142 mm	363 mm
911401834202	BRP110 LED180/757 G2	161 mm	1,320 mm	525 mm
911401878602	BRP110 LED85/757 G2 HY Solar	86 mm	842 mm	364 mm
911401879002	BRP110 LED85/740 G2 HY Solar	86 mm	842 mm	364 mm
911401879402	BRP110 LED85/730 G2 HY Solar	86 mm	842 mm	364 mm
911401833902	BRP110 LED50/757 G2	85 mm	562 mm	363 mm
911401878502	BRP110 LED120/757 G2 HY Solar	86 mm	1,142 mm	364 mm
911401878902	BRP110 LED120/740 G2 HY Solar	86 mm	1,142 mm	364 mm
911401879302	BRP110 LED120/730 G2 HY Solar	86 mm	1,142 mm	364 mm

Order Code	Full Product Name	Overall height	Overall length	Overall width
911401878702	BRP110 LED50/757 G2 HY Solar	86 mm	562 mm	364 mm
911401879102	BRP110 LED50/740 G2 HY Solar	86 mm	562 mm	364 mm
911401879502	BRP110 LED50/730 G2 HY Solar	86 mm	562 mm	364 mm
911401878402	BRP110 LED180/757 G2 HY Solar	160 mm	1,320 mm	525 mm
911401878802	BRP110 LED180/740 G2 HY Solar	160 mm	1,320 mm	525 mm
911401879202	BRP110 LED180/730 G2 HY Solar	160 mm	1,320 mm	525 mm
911401834002	BRP110 LED85/757 G2	85 mm	842 mm	363 mm

