



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.

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



BRP110 G2



BRP110 5k Lum

BRP110 8500 Lum

BRP110 12000 Lum

Application conditions	
Grid connection type	Off grid
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

Application conditions (1/2)

			Ambient		
		Ambient	temperature range		
	Full Product	temperature range	for discharging	Ambient	Battery
Order Code	Name	for charging	(when light is on)	temperature range	location
911401833902	BRP110	0 to +50 °C	-10 to +600C	0 to +50 °C	Inbuilt
	LED50/757 G2				
911401834002	BRP110	0 to +50 °C	-10 to +600C	0 to +50 °C	Inbuilt
	LED85/757 G2				
911401834102	BRP110	0 to +50 °C	-10 to +600C	0 to +50 °C	Inbuilt
	LED120/757 G2				
911401834202	BRP110	0 to +50 °C	-10 to +600C	0 to +50 °C	Inbuilt
	LED180/757 G2				
911401863681	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED50/757				Luminaire
911401863981	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED50/757 CN				Luminaire
911401863781	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED85/757				Luminaire
911401864081	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED85/757 CN				Luminaire
911401863881	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED120/757				Luminaire
911401864181	BRP110	0 °C to +45 °C	-20 °C to +50 °C	-20 to +50 °C	Inside
	LED120/757 CN				Luminaire

Application conditions (2/2)

	Full Product		
Order Code	Name	Autonomy	Solar dimming profile
911401833902	BRP110	2 h	First 2 Hrs - On motion : 100%, without
	LED50/757 G2		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%
911401834002	BRP110	2 h	First 2 Hrs - On motion : 100%, without
	LED85/757 G2		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%
911401834102	BRP110	2 h	First 2 Hrs - On motion : 100%, without
	LED120/757		motion :30%; Next 3 Hrs - On motion : 60%,
	G2		without motion :20%; Next 6 Hrs On
			$motion: 30\%, without\ motion: 10\%\ ;\ Rest\ of$
			the Night: On motion : 50%, without
			motion :30%
911401834202	BRP110	2 h	First 2 Hrs - On motion : 100%, without
	LED180/757		motion :30%; Next 3 Hrs - On motion : 60%,
	G2		without motion :20%; Next 6 Hrs On
			motion : 30%, without motion :10% ; Rest of

	Full Product		
Order Code	Name	Autonomy	Solar dimming profile
			the Night: On motion : 50%, without
			motion :30%
911401863681	BRP110	up to 24 h	First 2 Hrs - On motion : 100%, without
	LED50/757		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%
911401863981	BRP110	up to 24 h	First 2 Hrs - On motion : 100%, without
	LED50/757 CN		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%
911401863781	BRP110	up to 24 h	First 2 Hrs - On motion : 100%, without
	LED85/757		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%
911401864081	BRP110	up to 24 h	First 2 Hrs - On motion : 100%, without
	LED85/757 CN		motion:30%; Next 3 Hrs - On motion: 60%,

	Full Product		
Order Code	Name	Autonomy	Solar dimming profile
			without motion :20%; Next 6 Hrs On
			motion : 30%, without motion :10% ; Rest of
			the Night: On motion : 50%, without
			motion :30%
911401863881	BRP110	up to 24 h	motion :30% First 2 Hrs - On motion : 100%, without
911401863881	BRP110 LED120/757	up to 24 h	
911401863881		up to 24 h	First 2 Hrs - On motion : 100%, without

	Full Product		
Order Code	Name	Autonomy	Solar dimming profile
			the Night: On motion : 50%, without
			motion :30%
911401864181	BRP110	up to 24 h	First 2 Hrs - On motion : 100%, without
	LED120/757		motion :30% ; Next 3 Hrs - On motion : 60%,
	CN		without motion :20%; Next 6 Hrs On
			motion : 30%, without motion :10% ; Rest of
			the Night: On motion : 50%, without
			motion :30%

Operating and electrical (1/2)

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		Battery		Charge	
	Full Product	ampere	Battery	controller	Panel peak
Order Code	Name	hour	voltage	wattage	wattage
911401833902	BRP110	60 Ah	3.2 V	-	35 W
	LED50/757 G2				
911401834002	BRP110	54 Ah	6.4 V	-	55 W
	LED85/757 G2				
911401834102	BRP110	72 Ah	6.4 V	-	80 W
	LED120/757 G2				
911401834202	BRP110	30 Ah	25.6 V	-	125 W
	LED180/757 G2				
911401863681	BRP110	24 Ah	12.8 V	35 W	50 W
	LED50/757				

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

Operating and electrical (2/2)

Order Code	Full Product Name	Panel voltage
911401833902	BRP110 LED50/757 G2	12 V
911401834002	BRP110 LED85/757 G2	13 V
911401834102	BRP110 LED120/757 G2	13 V
911401834202	BRP110 LED180/757 G2	34.5 V
911401863681	BRP110 LED50/757	18 V

Order Code	Full Product Name	Panel voltage
911401863981	BRP110 LED50/757 CN	18 V
911401863781	BRP110 LED85/757	18 V
911401864081	BRP110 LED85/757 CN	18 V
911401863881	BRP110 LED120/757	36 V
911401864181	BRP110 LED120/757 CN	36 V

Mechanical and housing

		Overall	Overall	Overall
Full Product Name	Color	height	length	width
BRP110 LED50/757	RAL7040	85 mm	562 mm	363 mm
G2				
BRP110 LED85/757	RAL7040	85 mm	842 mm	363 mm
G2				
BRP110	RAL7040	85 mm	1142 mm	363 mm
LED120/757 G2				
BRP110	RAL7040	161 mm	1320 mm	525 mm
LED180/757 G2				
BRP110 LED50/757	-	95 mm	935 mm	380 mm
	BRP110 LED50/757 G2 BRP110 LED85/757 G2 BRP110 LED120/757 G2 BRP110 LED180/757 G2	G2 BRP110 LED85/757 RAL7040 G2 BRP110 RAL7040 LED120/757 G2 BRP110 RAL7040	### Full Product Name Color height ### BRP110 LED50/757 RAL7040 85 mm ### G2 ### BRP110 LED85/757 RAL7040 85 mm ### G2 ### BRP110 RAL7040 85 mm ### LED120/757 G2 ### BRP110 RAL7040 161 mm ### LED180/757 G2	Full Product Name Color height length BRP110 LED50/757 RAL7040 85 mm 562 mm G2 BRP110 LED85/757 RAL7040 85 mm 842 mm G2 BRP110 RAL7040 85 mm 1142 mm LED120/757 G2 BRP110 RAL7040 161 mm 1320 mm LED180/757 G2 LED180/757 G2 161 mm 1320 mm

			Overall	Overall	Overall
Order Code	Full Product Name	Color	height	length	width
911401863981	BRP110 LED50/757	-	95 mm	935 mm	380 mm
	CN				
911401863781	BRP110 LED85/757	-	95 mm	1485 mm	380 mm
911401864081	BRP110 LED85/757	-	95 mm	1485 mm	380 mm
	CN				
911401863881	BRP110	-	161 mm	1321 mm	525 mm
	LED120/757				
911401864181	BRP110	-	161 mm	1321 mm	525 mm
	LED120/757 CN				

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