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 G2

BRP110 G2

BRP110 G2

BRP110 G2

BRP110 5k Lum

BRP110 8500 Lum

BRP110 12000 Lum

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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)

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

Application conditions (2/2)

Order Code	Full Product Name	Autonomy	Solar dimming profile
911401833902	BRP110 LED50/757 G2	2 h	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%
911401834002	BRP110 LED85/757 G2	2 h	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%
911401834102	BRP110 LED120/757 G2	2 h	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%
911401834202	BRP110 LED180/757 G2	2 h	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

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

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Order Code	Full Product 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 LED120/757	up to 24 h	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

Order Code	Full Product Name	Autonomy	Solar dimming profile
			the Night: On motion : 50%, without motion :30%
911401864181	BRP110 LED120/757 CN	up to 24 h	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%

Operating and electrical (1/2)

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

Order Code	Full Product Name	Battery ampere hour	Battery voltage	Charge controller wattage	Panel peak wattage
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
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

Order Code	Full Product Name	Color	Overall height	Overall length	Overall width
911401833902	BRP110 LED50/757 G2	RAL7040	85 mm	562 mm	363 mm
911401834002	BRP110 LED85/757 G2	RAL7040	85 mm	842 mm	363 mm
911401834102	BRP110 LED120/757 G2	RAL7040	85 mm	1142 mm	363 mm
911401834202	BRP110 LED180/757 G2	RAL7040	161 mm	1320 mm	525 mm
911401863681	BRP110 LED50/757	–	95 mm	935 mm	380 mm

Order Code	Full Product Name	Color	Overall height	Overall length	Overall width
911401863981	BRP110 LED50/757 CN	–	95 mm	935 mm	380 mm
911401863781	BRP110 LED85/757	–	95 mm	1485 mm	380 mm
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

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