



# SmartBright All-in-one Solar Street Light

## BRP110 LED85/757 G2 HY Solar

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.

### Product data

General Information	
Driver included	Yes
Value ladder	Value
Light Technical	
Luminous Flux	8,500 lm
Correlated Color Temperature (Nom)	5700 K
Luminous Efficacy (rated) (Nom)	185 lm/W
Color rendering index (CRI)	>70
Operating and Electrical	
Power Factor (Fraction)	> 0.9
Battery type	Lithium Ferro Phosphate
Battery ampere hour	18 Ah
Battery voltage	12 V
Battery charging & discharging cycles	2000
Panel type	Mono crystalline
Panel voltage	18 V
Panel peak wattage	55 W
Charge controller type	MPPT

Charge controller wattage	42 W
Cable connection kit	Excluded
Connection	-
Grid connection type	Hybrid

Controls and Dimming	
Dimmable	Yes
Configurability	Configurable
Control interface	-
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	
Housing Color	RAL7040
Overall length	842 mm
Overall width	364 mm
Overall height	86 mm

## SmartBright All-in-one Solar Street Light

Dimensions (Height x Width x Depth)	86 x 364 x 842 mm
Material	Aluminum
Battery location	Inbuilt
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Optical cover type	Polycarbonate
Net Weight (Piece)	10.400 kg

### Approval and Application

CE mark	Yes
EU RoHS compliant	Yes
Ambient temperature range	0 to +50 °C

### Over Time Performance (IEC Compliant)

Median useful life L70B50	50,000 hour(s)
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### Application Conditions

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

Order product name	BRP110 LED85/757 G2 HY Solar
Full product name	BRP110 LED85/757 G2 HY Solar
Full product code	872016973545300
Order code	73545300
Material Nr. (12NC)	911401878602
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169735453
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169735453

## Dimensional drawing

