PHILIPS

Lighting

SmartBright All-in-one Solar Street Light

BRP110 LED120/757 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	12,000 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	24 Ah
Battery voltage	12 V
Battery charging & discharging cycles	2000
Panel type	Mono crystalline
Panel voltage	18 V
Panel peak wattage	80 W
Charge controller type	MPPT
Charge controller wattage	65 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	1,142 mm
Overall width	364 mm
Overall height	86 mm

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Dimensions (Height x Width x Depth)	86 x 364 x 1142 mm
Material	Aluminum
Battery location	Inbuilt
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Optical cover type	Polycarbonate
Net Weight (Piece)	13.800 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)

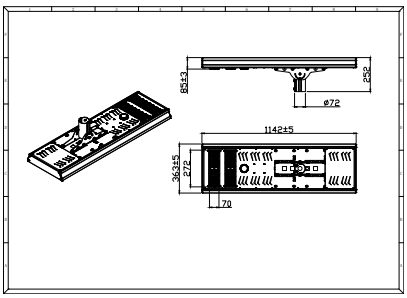
Application Conditions

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

Product Data

Order product name	BRP110 LED120/757 G2 HY Solar
Full product name	BRP110 LED120/757 G2 HY Solar
Full product code	872016973544600
Order code	911401878502
Material Nr. (12NC)	911401878502
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169735446
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169735446

Dimensional drawing



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