SmartBright All-in-one Solar Street Light

BRP110 LED50/757

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.

Product data

General Information

Driver included	Yes
Warranty period	2 years

Light Technical

Luminous Flux	5,000 lm
Correlated Color Temperature (Nom)	5700 K
Color rendering index (CRI)	>70
Optical cover type	Polycarbonate

Operating and Electrical

Battery type	Lithium Ferro Phosphate
Battery ampere hour	24 Ah
Battery voltage	12.8 V
Battery charging & discharging cycles	2000
Panel type	Mono crystalline
Panel voltage	18 V
Panel peak wattage	50 W
Charge controller type	MPPT
Charge controller wattage	35 W

Temperature

Ambient temperature range	–20 to +50 °C

Controls and Dimming

Dimmable	Yes
Configurability	Configurable
Control interface	IR remote

Mechanical and Housing

Overall length	935 mm
Overall width	380 mm
Overall height	95 mm
Dimensions (Height x Width x Depth)	95 x 380 x 935 mm
Material	Aluminum

Approval and Application

Ingress protection code	IP65 [Dust penetration-protected, jet-proof]

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Mech. impact protection code	IK08 [5 J vandal-protected]

Application Conditions

Ambient temperature range for charging	0 °C to +45 °C
Ambient temperature range for discharging (when light is on)	–20 °C to +50 °C
Autonomy	up to 24 hour(s)
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%
Grid connection type	Off grid
Battery location	Inside Luminaire

Product Data

Order product name	BRP110 LED50/757
Full product name	BRP110 LED50/757
Full product code	871951450821700
Order code	911401863681
Material Nr. (12NC)	911401863681
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8719514508217
Numerator – Packs per outer box	1
EAN/UPC – Case	8719514508217

Dimensional drawing

www.lighting.philips.com

2023, April 15 – data subject to change