SmartBright All-in-one Solar Street Light

BRP110 LED85/757 G2

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)	202 lm/W
Color rendering index (CRI)	>70

Operating and Electrical	
Battery type	LiFePO4
Battery ampere hour	54 Ah
Battery voltage	6.4 V
Battery charging & discharging cycles	2000
Panel type	Mono crystalline
Panel voltage	14 V
Panel peak wattage	55 W
Charge controller type	MPPT
Cable	-

Grid connection type	Off grid

Controls and Dimming	
Dimmable	Yes
Configurability	Configurable
Control interface	IR remote
Autonomy	- 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%

Mechanical and Housing	
Housing Color	RAL7040
Overall length	842 mm
Overall width	363 mm
Overall height	85 mm
Dimensions (Height x Width x Depth)	85 x 363 x 842 mm
Material	Aluminum
Battery location	Inbuilt

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Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [6 J]
Optical cover type	Polycarbonate
Net Weight (Piece)	12.100 kg

Approval and Application

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

Over Time Performance (IEC Compliant)

Median useful life L70B50	50,000 hour(s)

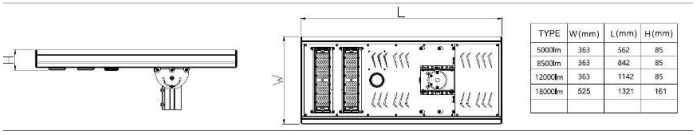
Application Conditions

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 LED85/757 G2
Full product name	BRP110 LED85/757 G2
Full product code	692382865728400
Order code	911401834002
Material Nr. (12NC)	911401834002
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	6923828657284
Numerator - Packs per outer box	1
EAN/UPC - Case	6923828657284

Dimensional drawing



TYPE	W(mm)	L(mm)	H(mm)
5000lm	363	562	85
8500lm	363	842	85
12000lm	363	1142	85
18000lm	525	1321	161

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