



# SmartBright All-inone Solar Street Light

### BRP110 LED50/757 G2 Pro

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
Optical cover/lens type	Polycarbonate
Control interface	IR remote
Warranty period luminarie	5 years
Material	Aluminum
Operating and electrical	
Battery type	Lithium Ferro Phosphate
Battery ampere hour	60 Ah
Battery voltage	3.2 V
Battery charging & discharging cycles	2000
Panel type	Mono crystalline
Panel voltage	12 V
Panel peak wattage	35 W
Charge controller type	MPPT
Charge controller wattage	27 W
Controls and dimming	
Dimmable	Yes

Mechanical and housing  Overall length 562 mm  Overall width 363 mm  Overall height 85 mm  Approval and application  Ingress protection code IP65 [ Dust penetration-protected, jet-proof]  Mech. impact protection code IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant)  Initial luminous flux (system flux) 5000 lm  Init. Corr. Color Temperature 5700 K  Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Configurability	Configurable	
Overall length 562 mm  Overall width 363 mm  Overall height 85 mm  Approval and application Ingress protection code IP65 [ Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant) Initial luminous flux (system flux) 5000 lm Init. Corr. Color Temperature 5700 K Init. Color Rendering Index >70  Application conditions Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C			
Overall length 562 mm  Overall width 363 mm  Overall height 85 mm  Approval and application Ingress protection code IP65 [ Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant) Initial luminous flux (system flux) 5000 lm Init. Corr. Color Temperature 5700 K Init. Color Rendering Index >70  Application conditions Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Mechanical and housing		
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Approval and application Ingress protection code IP65 [ Dust penetration-protected, jet-proof] Mech. impact protection code IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant) Initial luminous flux (system flux) 5000 lm Init. Corr. Color Temperature 5700 K Init. Color Rendering Index >70  Application conditions Ambient temperature range 0 to +50 °C Ambient temperature range for charging 0 to +50 °C		363 mm	
Ingress protection code  IP65 [ Dust penetration-protected, jet-proof]  Mech. impact protection code  IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant)  Initial luminous flux (system flux)  Init. Corr. Color Temperature  5700 K  Init. Color Rendering Index  >70  Application conditions  Ambient temperature range  0 to +50 °C  Ambient temperature range for charging  0 to +50 °C	Overall height	85 mm	
Ingress protection code  IP65 [ Dust penetration-protected, jet-proof]  Mech. impact protection code  IK08 [ 5 J vandal-protected]  Initial performance (IEC compliant)  Initial luminous flux (system flux)  Init. Corr. Color Temperature  5700 K  Init. Color Rendering Index  >70  Application conditions  Ambient temperature range  0 to +50 °C  Ambient temperature range for charging  0 to +50 °C			
Mech. impact protection code IKO8 [5 J vandal-protected]  Initial performance (IEC compliant)  Initial luminous flux (system flux) 5000 lm  Init. Corr. Color Temperature 5700 K  Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Approval and application		
Initial performance (IEC compliant)  Initial luminous flux (system flux) 5000 lm  Init. Corr. Color Temperature 5700 K  Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Ingress protection code	IP65 [ Dust penetration-protected, jet-proof]	
Initial luminous flux (system flux) 5000 lm  Init. Corr. Color Temperature 5700 K  Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Mech. impact protection code	IK08 [ 5 J vandal-protected]	
Initial luminous flux (system flux) 5000 lm  Init. Corr. Color Temperature 5700 K  Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C			
Init. Corr. Color Temperature 5700 K Init. Color Rendering Index >70  Application conditions Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Initial performance (IEC compliant)		
Init. Color Rendering Index >70  Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Initial luminous flux (system flux)	5000 lm	
Application conditions  Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Init. Corr. Color Temperature	5700 K	
Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C	Init. Color Rendering Index	>70	
Ambient temperature range 0 to +50 °C  Ambient temperature range for charging 0 to +50 °C			
Ambient temperature range for charging 0 to +50°C	Application conditions		
	Ambient temperature range	0 to +50 °C	
	Ambient temperature range for charging	0 to +50°C	
Ambient temperature range for −10 to +60 °C	Ambient temperature range for	-10 to +60 °C	
discharging (when light is on)	discharging (when light is on)		

Datasheet, 2022, July 1 data subject to change

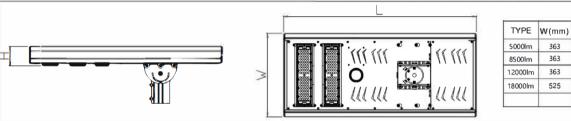
## SmartBright All-in-one Solar Street Light

Autonomy	up to 24 h
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

Order product name	BRP110 LED50/757 G2 Pro
Order code	TBD
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	TBD
	<del></del>



#### Dimensional drawing



363	5.60	
	562	85
363	842	85
363	1142	85
525	1321	161
	363	363 1142

BRP110 LED50/757 G2 Pro



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