



# 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                      | 65728400            |
| 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

