



# SmartBright Solar All-in-two Street Light

## BRP216 LED20/740 G2 Solar

External high efficiency polysilicon solar panel Die-casting aluminum housing, Professional lighting distribution, 2000, 3000, 4000lumens versions available, Plug-play connector between luminaire and PV panel Inbuilt LiFePO4 battery and MPPT controller.

### Warnings and Safety

- Install the luminaire in a sunny place that is not shaded by trees, buildings and walls, then the solar panel can receive the maximum sunlight for charging the battery.
- Charge the product under sunlight for at least 8 hours before first time using.
- This luminaire does not need any external electrical connection.
- It works 100% on solar energy.

### Product data

| General Information                |                         |
|------------------------------------|-------------------------|
| Driver included                    | Yes                     |
| Value ladder                       | Value                   |
| Warranty period                    | 3 years                 |
| Light Technical                    |                         |
| Luminous Flux                      | 2,000 lm                |
| Correlated Color Temperature (Nom) | 4000 K                  |
| Luminous Efficacy (rated) (Nom)    | 180 lm/W                |
| Color rendering index (CRI)        | 70                      |
| Operating and Electrical           |                         |
| Battery type                       | Lithium Ferro Phosphate |
| Battery ampere hour                | 50 Ah                   |

| Battery voltage        | 3.2 V            |
|------------------------|------------------|
| Panel type             | Poly crystalline |
| Panel voltage          | 16 V             |
| Panel peak wattage     | 20 W             |
| Grid connection type   | Off grid         |
| Controls and Dimming   |                  |
| Dimmable               | No               |
| Configurability        | Not configurable |
| Solar dimming profile  | Pre-configured   |
| Mechanical and Housing |                  |
| Housing Color          | Gray             |
| Overall length         | 583 mm           |

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|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Overall width                       | 218 mm                                       |
| Overall height                      | 96 mm                                        |
| Dimensions (Height x Width x Depth) | 96 x 218 x 583 mm                            |
| Material                            | Die-casting Aluminum                         |
| Battery location                    | In built                                     |
| Ingress protection code             | IP65 [Dust penetration-protected, jet-proof] |
| Optical cover type                  | Polycarbonate                                |
| Net Weight (Piece)                  | 5.400 kg                                     |

## Approval and Application

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | 0 °C 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 -10 °C to 60 °C  
(when light is on)

## Product Data

|                                 |                           |
|---------------------------------|---------------------------|
| Order product name              | BRP216 LED20/740 G2 Solar |
| Full product name               | BRP216 LED20/740 G2 Solar |
| Full product code               | 692382866148900           |
| Order code                      | 911401845102              |
| Material Nr. (12NC)             | 911401845102              |
| Numerator - Quantity Per Pack   | 1                         |
| EAN/UPC - Product/Case          | 6923828661489             |
| Numerator - Packs per outer box | 1                         |
| EAN/UPC - Case                  | 6923828661489             |

## Dimensional drawing

