

PHILIPS

Lighting



SmartBright All-in-one Solar Street Light

BRP110 LED120/757 G2 HY Solar

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 | | Panel peak wattage | |
|---------------------------------------|-------------------------|-------------------------------------|--------------------|
| Driver included | Yes | | 80 W |
| CE mark | Yes | Charge controller type | MPPT |
| EU RoHS compliant | Yes | Charge controller wattage | 65 W |
| | | Cable connection kit | Excluded |
| | | Connection | - |
| Light Technical | | Temperature | |
| Luminous Flux | 12,000 lm | Ambient temperature range | -10 °C to 60 °C |
| Correlated Color Temperature (Nom) | 5700 K | | |
| Luminous Efficacy (rated) (Nom) | 185 lm/W | Controls and Dimming | |
| Color rendering index (CRI) | >70 | Dimmable | Yes |
| Optical cover type | Polycarbonate | Configurability | Configurable |
| | | Control interface | - |
| Operating and Electrical | | Mechanical and Housing | |
| Power Factor (Fraction) | > 0.9 | Housing Color | RAL7040 |
| Battery type | Lithium Ferro Phosphate | Overall length | 1,142 mm |
| Battery ampere hour | 24 Ah | Overall width | 364 mm |
| Battery voltage | 12 V | Overall height | 86 mm |
| Battery charging & discharging cycles | 2000 | Dimensions (Height x Width x Depth) | 86 x 364 x 1142 mm |
| Panel type | Mono crystalline | | |
| Panel voltage | 18 V | | |

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|-----------------|----------|
| Material | Aluminum |
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Approval and Application

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| Ingress protection code | IP65 [Dust penetration-protected, jet-proof] |
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Over Time Performance (IEC Compliant)

| | |
|----------------------------------|----------------|
| Median useful life L70B50 | 50,000 hour(s) |
|----------------------------------|----------------|

Application Conditions

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|---|--|
| Ambient temperature range for charging | 0 °C to 50 °C |
| Ambient temperature range for discharging (when light is on) | -10 °C to 60 °C |
| 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% |
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|-----------------------------|---------|
| Grid connection type | Hybrid |
| Battery location | Inbuilt |

Product Data

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|--|-------------------------------|
| Order product name | BRP110 LED120/757 G2 HY Solar |
| Full product name | BRP110 LED120/757 G2 HY Solar |
| Full product code | 872016973544600 |
| Order code | 911401878502 |
| Material Nr. (12NC) | 911401878502 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8720169735446 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8720169735446 |

Dimensional drawing

