**VGP724 LED30/730 HY-BLE DM10 DGR 60P**

912300059286

# Sunstay Pro gen2 mini, Solar streetlight, 16.6 W, 2650 lm, 3000 K, CRI70, BLE, Distribution medium 10, SDP1, Safety class I, IP66

Solar streetlight, Aluminium die-cast LM6 - alloy grade (EN AC-44300), Grey, Pole top, Spigot for diameter 60 mm, Solar dim profile version 1, 2650 lm, 16.6 W, 160 lm/W, 3000 K, (0,433, 0,403), CRI70, Distribution medium 10, IP66 | Dust penetration-protected, jet-proof, IK09 | 10 J, Safety class I, Surge protection level until 10 kV differential mode and 10 kV common mode kV, Plug-in connector 3-pole Wieland/ Adels compatible

## Warnings and Safety

- To ensure performance and autonomy of streetlight, solar sizing calculation to be done by trained signify team or trained partner by Signify team
- For effective performance of solar street light, photo voltaic panel should be exposed to sun all day and should not be installed under shadows

## General Information

| | |
|---|---|
| Lamp family code | LED30 [LED module 3000 lm] |
| Light source replaceable | Yes |
| Driver included | Yes |
| Light source engine type | LED |
| Service tag | Yes |
| Value ladder | Specification |
| Warranty period | 5 years |

## Light Technical

| | |
|---|---|
| Upward light output ratio | 0 |
| Luminous Flux | 2,650 lm |
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 160 lm/W |
| Color rendering index (CRI) | ≥70 |
| Light source color | 730 warm white |
| Luminaire light beam spread | 160° x 95° |
| Optic type outdoor | Distribution medium 10 |
| Effective projected area | 0.1 m² |

## Operating and Electrical

| | |
|---|---|
| Input Voltage | 220 to 240 V |
| Line Frequency | 50 Hz |
| Initial CLO power consumption | 16.6 W |
| End CLO power consumption | 16.6 W |
| Inrush current | 66 A |
| Inrush time | 0.82 ms |
| Power Consumption | 16.6 W |
| Power Factor (Fraction) | 0.95 |
| Battery type | LFP |
| Battery ampere hour | 12 Ah |
| Battery voltage | 25.6 V |
| Battery charging & discharging cycles | 2000 |
| Panel type | Mono crystalline |
| Panel voltage | 38 V |
| Panel peak wattage | 39 W |
| Charge controller type | MPPT |
| Charge controller wattage | 140 W |
| Cable connection kit | Included |
| Connection | Plug-in connector 3-pole Wieland/Adels compatible |
| Cable | - |
| Number of products on MCB of 16 A type B | 2 |
| Grid connection type | Hybrid |
| Protection class IEC | Safety class I |
| Surge Protection (Common/ Differential) | Surge protection level until 10 kV differential mode and 10 kV common mode kV |

## Controls and Dimming

| | |
|---|---|
| Dimmable | Yes |
| Control Interface | Step Dimming |
| Configurability | Configurable |
| Control interface | BLE |
| Constant light output | No |
| Autonomy | 20 hour(s) |
| Maximum dim level | 10% |
| Solar dimming profile | Step1 100%, Step 2 20%, Step 3 20%, Step FT 20%, Step 4 20%, |
| Embedded control | Solar dim profile version 1 |

## Mechanical and Housing

| | |
|---|---|
| Housing Material | Aluminium die-cast LM6 - alloy grade (EN AC-44300) |
| Reflector material | - |
| Optic material | Polymethyl methacrylate |
| Optical cover material | Glass |
| Fixation material | Aluminum |
| Housing Color | Grey |
| Mounting device | Spigot for diameter 60 mm |
| Optical cover shape | Flat |
| Optical cover finish | Clear |
| Overall length | 762 mm |
| Overall width | 380 mm |
| Overall height | 245 mm |
| Dimensions (Height x Width x Depth) | 245 x 380 x 762 mm |
| Battery location | on-pole |

| | |
|---|---|
| Ingress protection code | IP66 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code | IK09 [10 J] |
| Standard tilt angle posttop | 0° |
| Standard tilt angle side entry | 0° |
| Mounting | Pole top |
| Optical cover type | Glass |
| Net Weight (Piece) | 29.800 kg |

## Approval and Application

| | |
|---|---|
| Flammability mark | For mounting on normally flammable surfaces |
| CE mark | Yes |
| ENEC mark | ENEC plus mark |
| Photobiological risk | Photobiological risk group 2 @200mm to EN62778 |
| Photobiological risk specification | 2 m |
| EU RoHS compliant | Yes |
| Remarks | Battery pack has BMS inside |
| Ambient temperature range | -20 to +40 °C |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| Luminous flux tolerance | +/-7% |
| Initial chromaticity | (0,433, 0,403) |
| Power consumption tolerance | +/-10% |

## Over Time Performance (IEC Compliant)

| | |
|---|---|
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 35000 h | - |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 75000 h | - |
| Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 100000 h | L97 |

## Application Conditions

| | |
|---|---|
| Ambient temperature range for charging | 0 °C to 60 °C |
| Ambient temperature range for discharging (when light is on) | -20 °C to 60 °C |

## Sustainability Data

| | |
|---|---|
| Sustainability rating | Signify Circle |
| Repair class | Repair Class B, the driver and light source of this luminaire can be replaced by a service technician. Parts and documentation are available for an extended period of time. |
| Embedded carbon (A1-A3) | 269 kg $CO_2e$ |
| Product non-virgin material ratio | 40.8 % |
| Recyclable content ratio of the finished product | 51.6 % |
| GWP total B6 (kg CO2eq) Declared Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO2eq / kwh) |
| GWP total B6 (kg CO2eq) Functional Unit | Please calculate using your local energy mix value: Power Declared Unit (kW) * 1000 (lm) /lumen output (lm) Declared Unit * 35000 (hrs) * Energy mix (kg CO2 eq / kwh) |
| Non-virgin material ratio of the packaging | Cardboard > 80% recycled |
| Packaging Recyclable content ratio | Cardboard recycling rate > 80% |
| Packaging Material | Cardboard |

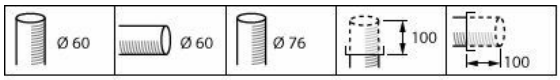
## Product Data

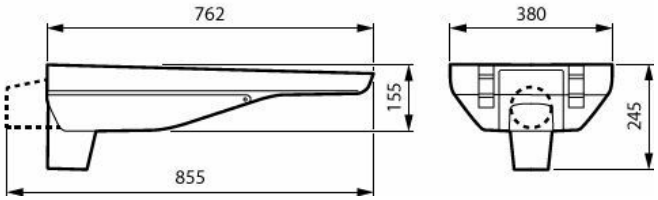
| | |
|---|---|
| Order product name | VGP724 LED30/730 HY-BLE DM10 DGR 60P |
| Full product name | VGP724 LED30/730 HY-BLE DM10 DGR 60P |
| Full product code | 872016980983300 |
| Order code | 80983300 |
| Material Nr. (12NC) | 912300059286 |
| Numerator - Quantity Per Pack | 1 |

| | |
|---|---|
| EAN/UPC - Product/Case | 8720169809833 |
| Numerator - Packs per outer box | 1 |

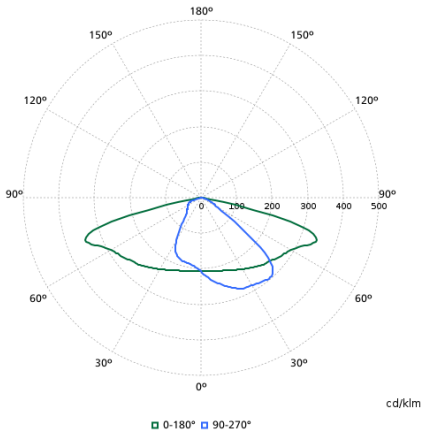
| | |
|---|---|
| EAN/UPC - Case | 8720169809833 |
| Product family code | VGP724 [SunStay Pro gen2 mini] |

## Dimensional drawing




## Polar normal diagrams




## Related Documents

| Documents and certificates | Document Name | Download |
|---|---|---|
| Installation Instructions | 583-443000023002-2-SunStay-Pro-gen2-mini-Hybrid-Installation-instructions.pdf | Download |

| Photometry and lighting design | Document Name | Download |
|---|---|---|
| LDT File | LDT File - VGP724N - 912300059286.ldt | Download |
| ROLF File | ROLF File - VGP724N - 912300059286.rolfz | Download |
| ULD File | ULD File - VGP724N - 912300059286.uld | Download |

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