VGP724 LED20/727 OG-BLE DM10 III DGR 60P

912300059289

Sunstay Pro gen2 mini, Solar streetlight, 12.0 W, 1774 lm, 2700 K, CRI70, BLE, Distribution medium 10, SDP1, Safety class III, 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, 1774 lm, 12.0 W, 148 lm/W, 2700 K, (0,457, 0,409), CRI70, Distribution medium 10, IP66 | Dust penetration-protected, jet-proof, IK09 | 10 J, Safety class III

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	LED20 [LED Module 2000 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	1,774 lm
Correlated Color Temperature (Nom)	2700 K
Luminous Efficacy (rated) (Nom)	148 lm/W
Color rendering index (CRI)	≥70
Light source color	727 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	- V
Line Frequency	- Hz
Initial CLO power consumption	12 W
End CLO power consumption	12 W
Inrush current	0 A
Inrush time	0 ms
Power Consumption	12.0 W
Power Factor (Fraction)	0.95
Battery type	LFP
Battery ampere hour	18 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	-
Cable	-
Number of products on MCB of 16 A type B	-
Grid connection type	Off grid
Protection class IEC	Safety class III
Surge Protection (Common/ Differential)	-

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	(0,457, 0,409)
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)	254 kg CO_2e
Product non-virgin material ratio	39.2 %
Recyclable content ratio of the finished product	51.1 %
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

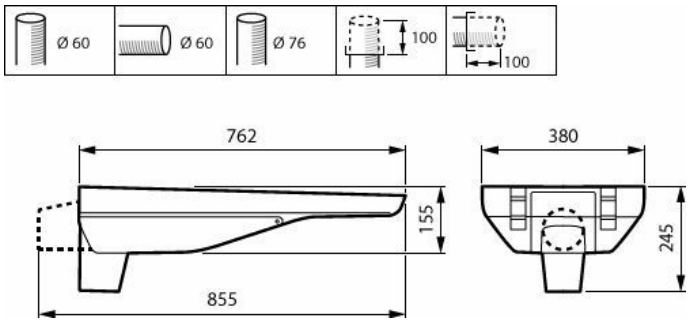
Product Data

Order product name	VGP724 LED20/727 OG-BLE DM10 III DGR 60P
Full product name	VGP724 LED20/727 OG-BLE DM10 III DGR 60P
Full product code	872016980986400
Order code	80986400
Material Nr. (12NC)	912300059289
Numerator - Quantity Per Pack	1

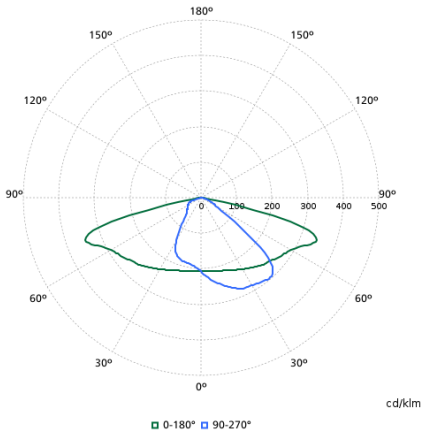
EAN/UPC - Product/Case	8720169809864
Numerator - Packs per outer box	1

EAN/UPC - Case	8720169809864
Product family code	VGP724 [SunStay Pro gen2 mini]

Dimensional drawing



Polar normal diagrams



Related Documents

Documents and certificates	Document Name	Download
Installation Instructions	583-443000023003-2-SunStay-Pro-gen2-mini-Off-grid-Installation-instructions.pdf	Download

Photometry and lighting design	Document Name	Download
LDT File	LDT File - VGP724N - 912300059289.ldt	Download
ROLF File	ROLF File - VGP724N - 912300059289.rolfz	Download
ULD File	ULD File - VGP724N - 912300059289.uld	Download

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