



Discover the new all-in-one SolarForm Gen 3

SolarForm

Solar lighting





Global trends

Carbon-neutral goals are more important than ever

With current policies to reduce CO₂ emissions, it is more important than ever to reduce the carbon footprint of urban and rural areas.

Energy is expensive

The looming energy crisis has made it expensive to run municipal street lights, so it is essential to research solutions for creating energy efficiencies.

Misconception that solar street lights are impractical

City planners might believe that solar street lights are expensive to install, run and upgrade. And that they need year-round sunshine to go solar. But this isn't true!

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SolarForm Gen 3

The all-in-one solar street
and area light



SolarForm Gen 3 is an elegant, all-in-one solution that supports your long-term sustainability goals while delivering immediate energy and cost savings. It drives efficiency across the entire value chain—from installation and operation to maintenance and upgrades. With its always-on feature, SolarForm Gen 3 also enhances community safety and security.

And you don't need endless sunshine to go solar. Our hybrid system gives you the best of both worlds: stay connected to the grid while benefiting from solar savings, or go completely off-grid for total independence. SolarForm Gen 3 makes it possible to take clear, practical steps toward a more sustainable, cost-effective, and energy-efficient future.







Product benefits



Easy Installation

All-in-one integrated design (PV panel, battery, CCC, BLE, motion sensor, etc) for easy installation and maintenance.



Cost Saving

Off-grid option lowers TCO with no cabling or trenching. Zero energy consumption from the grid.



Year-round use

Hybrid charger allows it to work off-grid during sunny days and draw partial power from the grid on cloudy days.



Easy upgrade

Top-up vertical PV panel, add sensors, add OLC (remote connectivity) as future upgrades without replacing the solar luminaire.



Easy Maintenance

Access to battery and other components via clips, top opening housing and spare parts.

Application areas



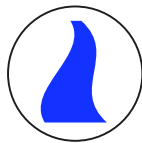
Parking lots



Industrial



Parks



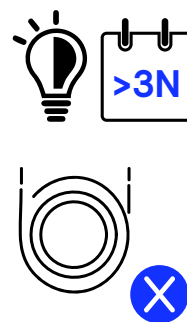
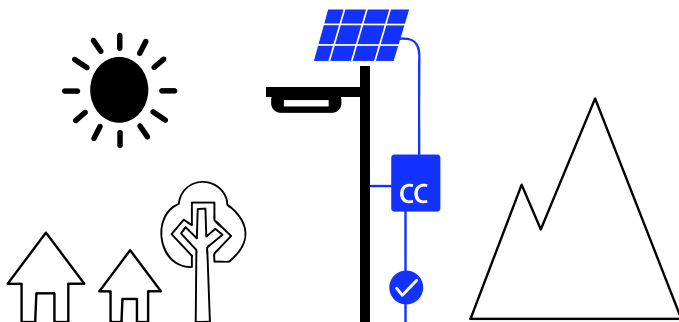
Cycle paths



Bus stops

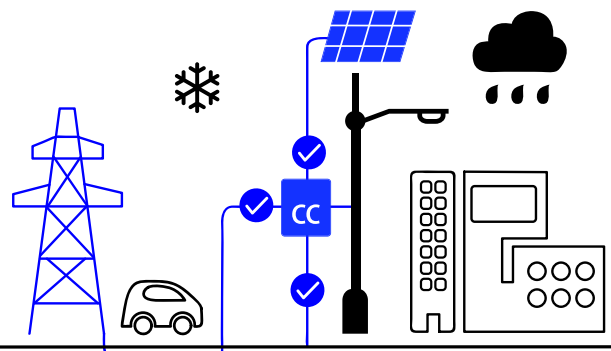
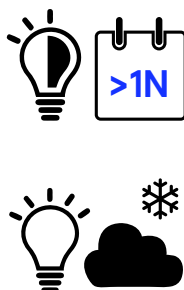


Residential



Off-grid solar

Hybrid solar









Driving differentiation



Meet carbon-neutral goals

- Solar street lighting is one of the fastest and cheapest ways to reduce CO₂ emissions
- Offers both off-grid and hybrid power solutions
- Off-grid consumes zero energy from grid, hence no electrical infrastructure required
- When combined with Managed Services, lighting system offers increased cost and energy savings



Cost- and energy-efficient

- Saves cost of installation with no cabling trenching and distribution switchgear in off-grid version
- Choice of battery size to optimize cost and energy backup
- Broader range of optical choices offers better pole spacing, lower energy consumption at application level and better TCO



Always-on feature for street security

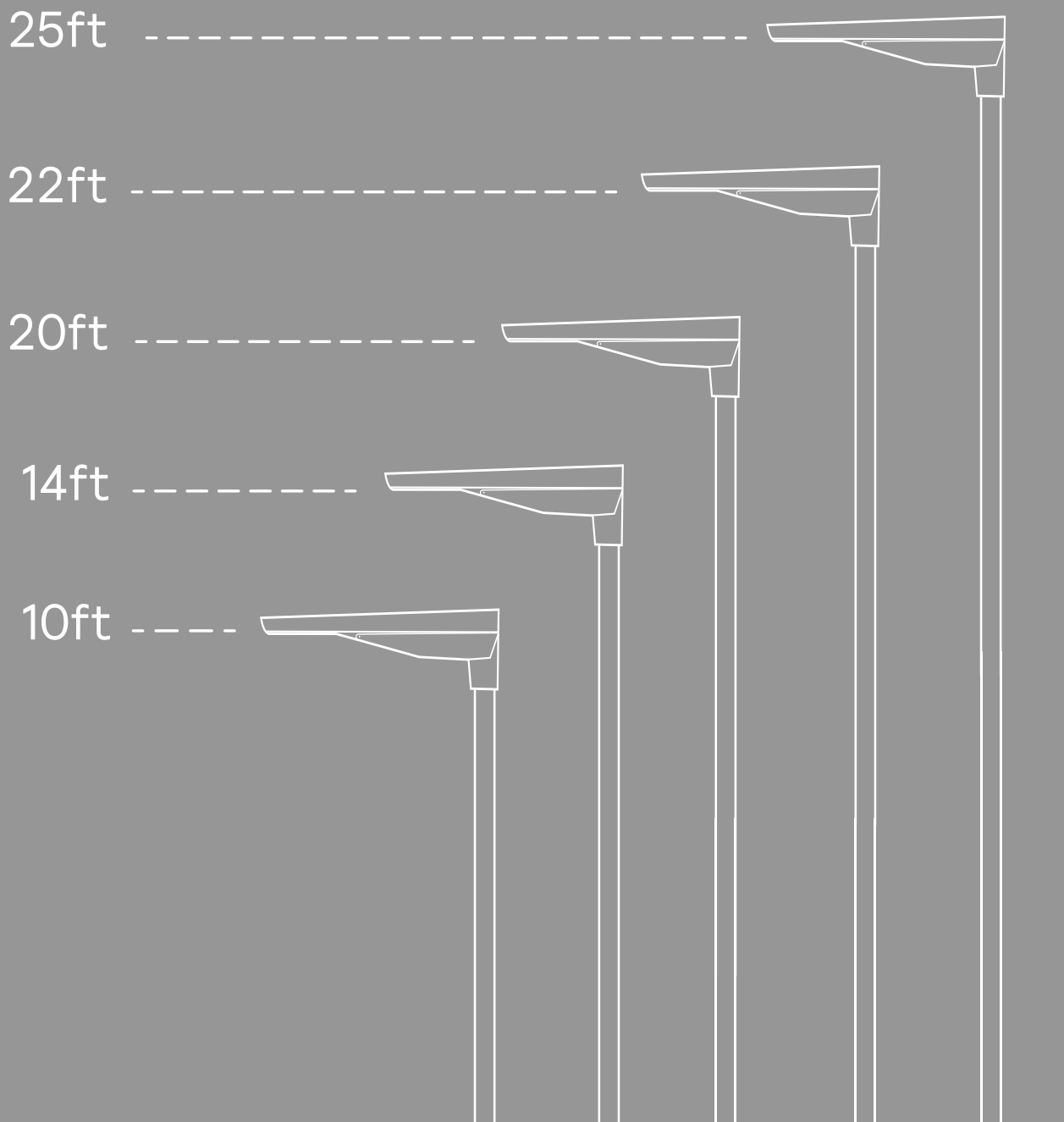
- Run Time Extension: RTE function (off-grid only) to enable adaptive lighting level
- Hybrid option runs on grid in absence of sun
- Increased autonomy with the light on-demand feature (multi-sensor on external socket to enable adaptive lighting level based on residual power in battery during low or no sun days)



Easy to install, upgrade and maintain

- All integrated design makes it easy to install, configure, use and upgrade
- Saves time of installation with no cabling, trenching and distribution switchgear in off-grid version
- Top-up vertical PV panel to increase power without replacing whole unit

Application coverage



Key benefits



- 1 Easy access and replaceable spare parts for maintenance via Service tag.
- 2 Housing with integrated PV panel.
- 3 Eyebolt to connect safety chain.
- 4 One spigot, two mounting options post top and side entry.
- 5 Clips for easy opening of top housing.
- 6 Integrated outdoor luminaire controller (OLC) for future connectivity upgrade.
- 7 Adjustable dimming profile, and monitoring via BLE connectivity.
- 8 Optional top-up vertical PV panel on pole for additional solar energy.
- 9 Philips Outdoor Multi-sensor offers better autonomy, with light on-demand and forward triggering feature.
- 10 All-in-one design for easy installation, maintenance and upgrades.

Product overview

BLE for easy monitoring
and configuration from
bottom of pole

Battery capacity
of up to 30Ah/25.6V
and a wide diversity
of optics to choose from

Offers top-up vertical PV panel to
increase power output without
needing to replace the entire device





In-built solar panels, batteries and charge controllers have been designed to operate autonomously

SolarForm Gen 3 offers both off-grid and hybrid power solutions



Solar lighting is one of the fastest and cheapest ways to reduce CO₂ emissions

Multi-sensor for light on-demand and forward triggering

Designed for serviceability

Easy to service thanks to the Service tag, a unique QR-based identification system that appears on individual luminaires and their packaging.

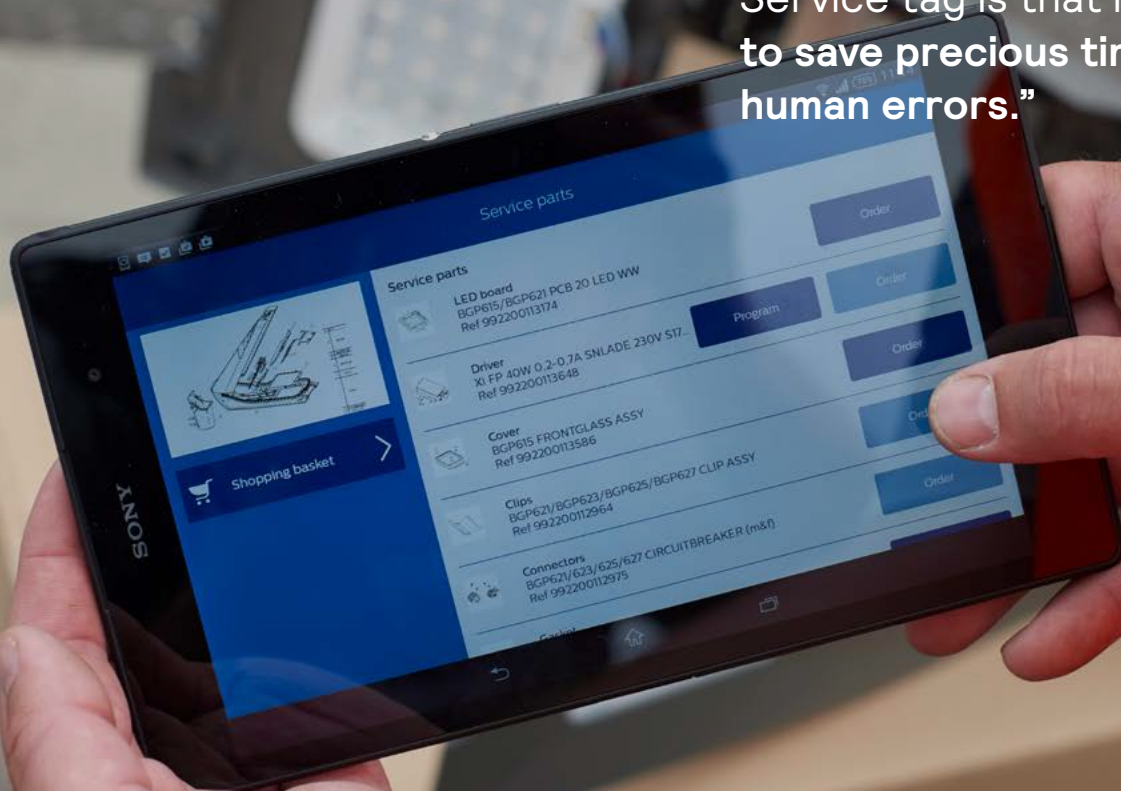
Service tag:

- Simplifies installation and servicing
- Provides 24/7 access to luminaire and spare parts information
- Allows on-the-spot driver reprogramming

SolarForm Gen 3 is system-ready, which means it can be paired with existing and upcoming control and lighting management solutions such as Interact.

“

The greatest value of the Service tag is that it enables us to save precious time and avoid human errors.”



Why Service tag?



Easy access to relevant information

Improves installation process by providing easy access to product configuration information



More effective maintenance

Enables more effective maintenance operations by identifying spare parts

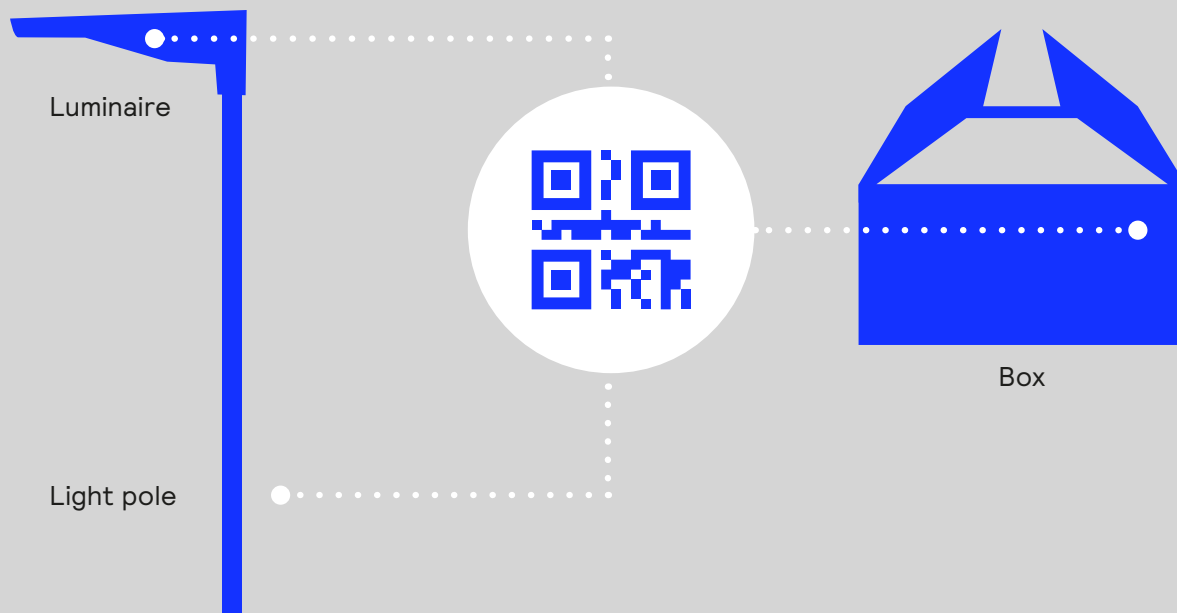


Digital maintenance

Allows you to pre-program spare parts to factory settings

Instant access to procedures, spare parts lists and programming

Service tag features a QR-based identification system that gives you instant access to critical information during unpacking, installation, diagnostics, fault reporting and programming. Simply scan the tag with a smartphone or tablet running the Philips Service tag app, and you can access information about the contents of the box and troubleshooting details specific to the luminaire. Service tag also allows you to source spare parts and restore factory settings in the field. It's that simple.



Designed for a circular economy

Our purpose is to unlock light's extraordinary potential for a brighter future and a better world. Helping to further develop the circular economy is a good place to start.

Our Lighting for Circularity products, services and systems can help to reduce the environmental impact and enhance store experience at the same time.

Products

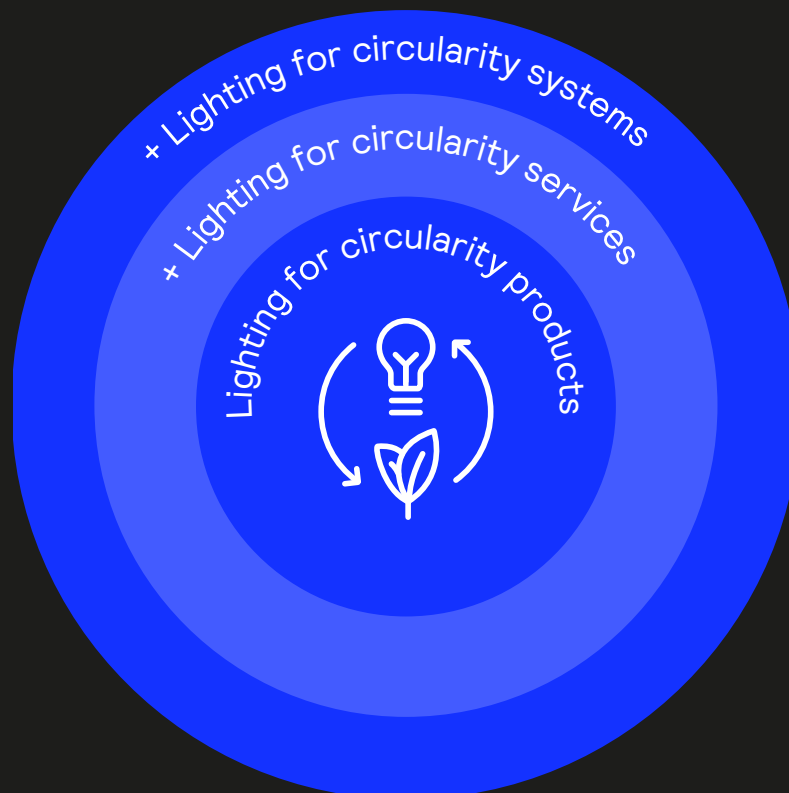
Luminaires and components use renewable materials, offer high energy efficiency and long lifetime, are easy to maintain, repair, upgrade, and replace.

Services

Include everything from design and build, to operation and maintenance to ensure sustainable investments and operations.

Systems

Smart lighting systems can have a great impact on the environmental performance of your lighting, e. g. monitoring and programming of lighting asset.





SolarForm Gen 3 meets the five criteria of Lighting for Circularity

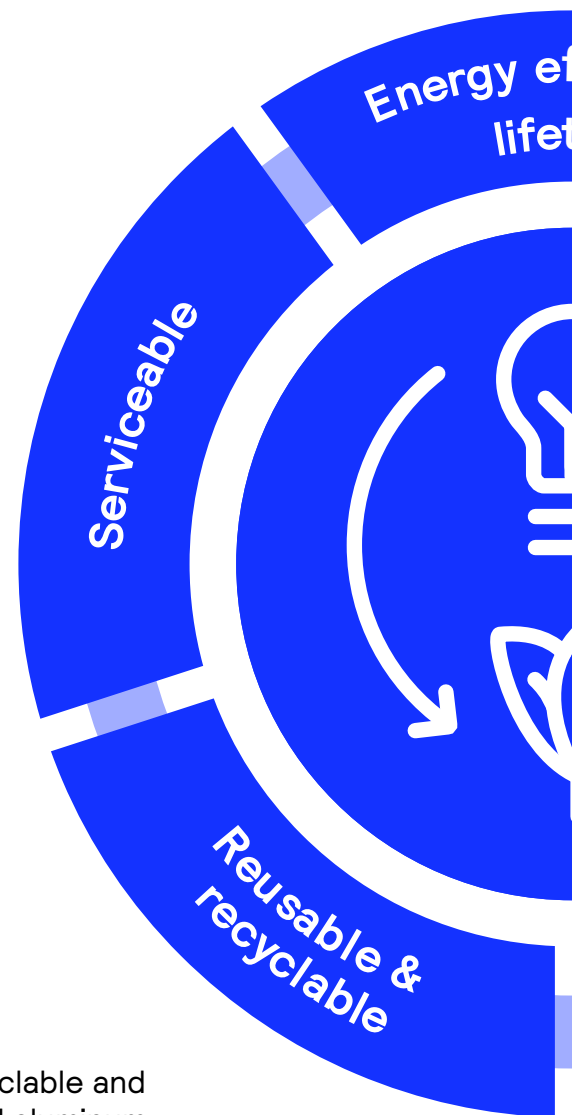
Serviceable

- SolarForm Gen 3 range is easy to service, repair and replace thanks to the Signify Service tag, QR-based identification system, which makes each luminaire and its components uniquely identifiable. Components are modular in design and leverage platform building blocks to maximize reuse in the portfolio.



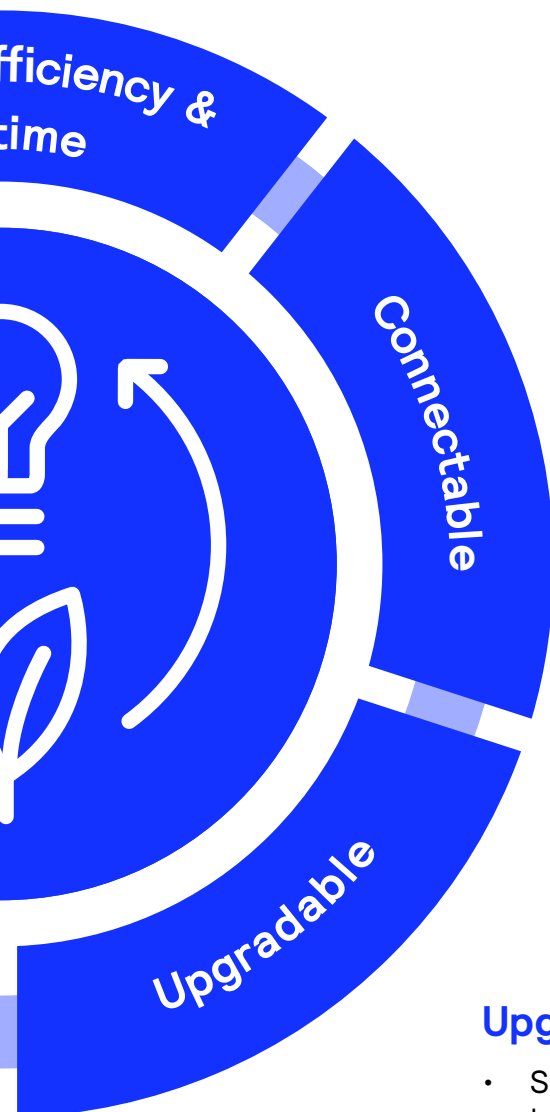
Reusable and recyclable

- The aluminum housing is fully recyclable and can be used to renew die-casted aluminum.
- The other parts can be dismantled and recycled in a responsible manner.



Energy efficiency & lifetime

- SolarForm Gen 3 range offers off-grid and hybrid options with very high luminous efficacy up to 175 lm/W.
- It has a range of tailored-made optics that support optimized lighting design in road and street applications, for even greater energy savings.
- LED Lifetime of 100k hours with very high lumen efficacy up to L97.



Connectable

- SolarForm Gen3 range can be connected via Bluetooth mobile application to monitor, configure and has presence sensor for increased energy saving and/or future-ready for Interact city for configuring, scheduling and asset management.



Upgradable

- SolarForm Gen 3 range is upgradeable. LED boards, drivers and other electrical components are easily accessible and exchangeable.

The right solution for outdoor applications

Our latest generation LEDgine optimized light engine offers the flexibility to further optimize your preferences for luminaire efficacy and cost aspects. The LEDgine optimized light engine covers a wide range of standard optics and a full range of standard optics is available to cover a wide range of applications.

Moreover, where needed we can support you to tune and optimize your project solutions as to fluxes and light distributions further with our exclusive tools. The three pillars that characterize the light engines are standardized optics, standard engines and tailor-made solutions.



LEDgine optimized

LED count and glass options optimizing system

lm/W supporting high energy savings

High flux per area enabling use of compact lower cost luminaire sizes

Standardized optics

A wide range of light distributions ensure a perfect fit for many applications.

The optics offer flexibility, enabling standardization over applications with a good performance across a wide range of geometries – as well as design parameters such as tilt and overhang.

Standard engine

High performance across portfolios.

Using a standard engine across different luminaire ranges means you can optimally benefit from the latest LED upgrades without changing light distributions, so design continuity is assured. Standard flux packages are pre-defined across product ranges. Flux and thereby energy minimization is achieved by using best possible lumen maintenance. The LEDgine optimized engine benefits from more LEDs per area contributing to more compact and cost-effective solutions. Standard engines minimize spare components which are easy to configure by using the Signify Service tag application.

Tailor-made solutions

Tuning to project preferences.

We can support you with our exclusive tools to customize solutions which of course can become your standard! Using a variety of LED counts, it enables to build the exact required flux in a perfect balance between energy consumption, luminaire cost/type and operational life. Based on project parameters the best optical fit can be selected and when required light distributions can be customized for best application fit and to maximize energy savings.

ClearStar: Colored optics to preserve nighttime



Luminance
classes

Optics name

DN10 DM11
DW10 DX10



Illuminance
classes

Optics name

DM50
DW50
DS50



Light
trespass
prevention

Optics name

BL1

Uncontrolled lights can create light pollution, producing too much brightening of the night sky. This prevents people enjoying the night sky and the stars, and it also wastes energy and money.

Light spectrum composition with significant blue light has a negative impact on the work of astronomers. Some governments are therefore limiting blue light spectrum in light sources.

The use of efficient white LED boards with the dedicated **LEDgine** optimized colored optical plates for night preservation is an ideal solution for the safety and comfort of inhabitants, astronomers research and compliancy to regulations.

Two solutions are proposed for the night preservation, based on colored optics. It ensures a higher efficiency than standard optic plate with Amber LED.



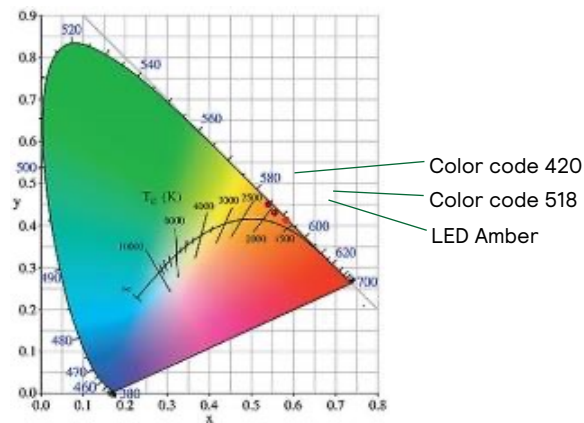
Standard optical plate



Optical plate for night
time preservation

The colored optics can be combined with neutral white or warm-white LED board, providing two different CCT and CRI. They allow the LEDgine optimize lighting distributions remain unchanged thanks to standard transparent optical plate.

The colored optics can be combined with neutral white or warm-white LED board, providing two different CCT and CRI. They allow the **LEDgine optimized** lighting distributions remain unchanged thanks to standard transparent optical plate. The solutions, using standard LED and optical platforms, allow easy maintenance and repair.

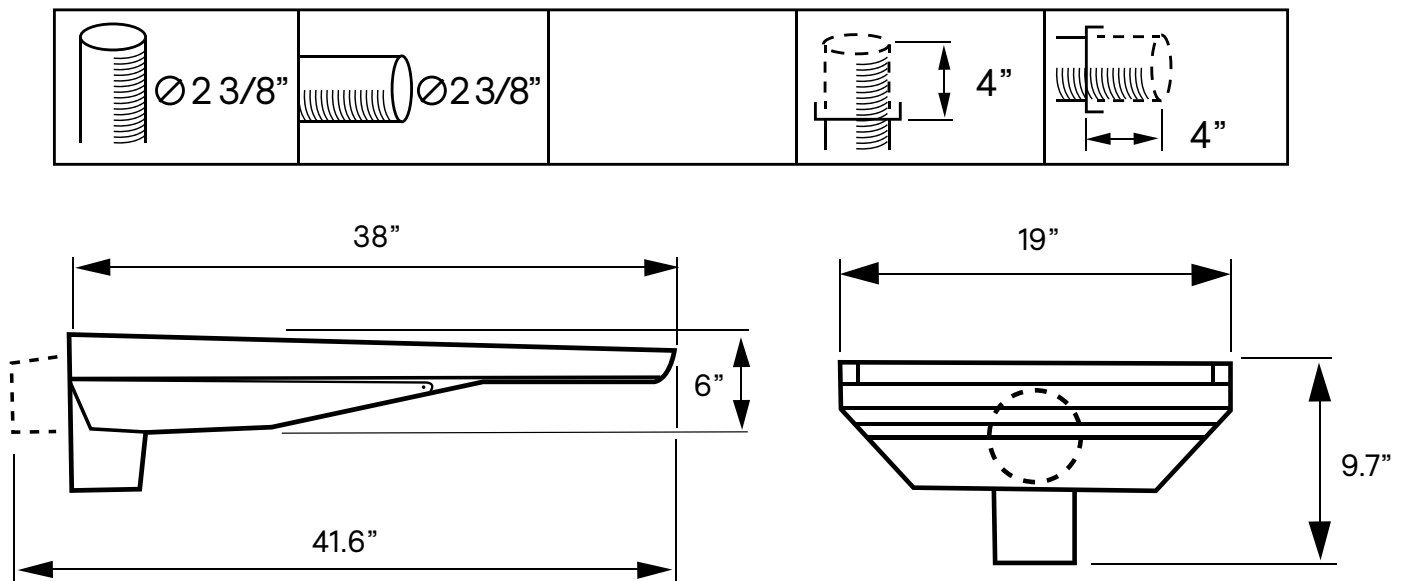


Type	X*	Y*	CRI	CCT
LED Amber	0.567	0.422	37	1700 K
420	0.551	0.446	36	2000 K
518	0.568	0.43	48	1800 K

* CIE chromatic diagram coordinates @400 mA



Dimensional drawings



Data sheet

Product designation	VGP726
Product versions	Off-Grid (BLE-OG) and Hybrid (BLE-HY)
Driver	Combo charge controller Hybrid power supply unit
Luminous flux ranges	Up to 9,000lm
System Power (tolerances on system power: +/- 10%)	Up to 55W
Luminaire Efficiency	Up to 175 lm/W (depends on version CCT and CRI)
Correlated Color Temperature (CCT)	Warm White (WW) 2700K and 3000K; Neutral White (NW) 4000K
Color Rendering Index (CRI)	Typical: 70 (740/730/727); tolerances of CRI +/- 2
SDCM	<5
Light distributions/optics	Type 2: Short, Medium; Type 3: Short, Medium, High-Tilt; Type 4, Type 5, and more
Charging temperature range	32°F to 104°F (0°C to 40°C)
Discharging temperature range	-4°F to 104°F (-20°C to 40°C)
Degree of Ingress Protection	IP66

Data sheet

Luminaire dimensions (LxWxH)	41.6 x 19 x 9.7" (1057 x 480 x 152 mm)
Luminaire weight/Battery Ah combination	Off-grid: 53.35 lbs (12Ah)/56.22 lbs (18Ah)/61.73 kg (30Ah) Hybrid: 55.12 lbs (12 Ah) / 59.53 kg (18Ah)
Luminaire EPA	Zero tilt: 0.834 ft ² / 15 Deg tilt :1.612 ft ²
Material/Finishing	PDC LM6 aluminum housing, glass cover, PC optics
Supply mains input	Hybrid: 100-277V/50-60Hz (tolerances: -/+ 10%) Off-grid: Internal battery 25.6 V
Inrush current (Hybrid)	37A during 180µs at 120V mains measured at 50% peak 90A during 172µs at 277V mains measured at 50% peak
PV Panel	Horizontal Panel: 73Wp / 38.2V fixed on the housing Optional Vertical Panel: 200Wp / 36V x 3 mounted on the pole
Self-Diagnostics Visual Indications (2 LEDs – GREEN/RED)	Battery Charging: GREEN LED Blinking 1sec On/Off Battery Recovery: GREEN LED Blinking 0.5sec On/Off Battery under voltage Cut off: RED LED ON for 800mSec and OFF for 5 sec Any other Fault in system: BOTH LED's GREEN and RED Blinking @ 1 Sec internal
Power factor (Hybrid)	> 0.90 at full power
Surge protection (Hybrid)	10 kV/kA Fail-On standard (20kV/10kA & Fail-Off upon request)
Life-time/Lumen maintenance	L97B50*: up to 100,000 hours (* As per Lighting Europe guidance paper "Evaluating performance of LED based luminaires – January 2018": Statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represent the B10 Value).
Charge controller lifetime	100,000 hours
Failure rate charge controller	0.5 per 5000 hours
Luminaire installation	Outdoor: Side entry and Pole top mounting on pole height of 10-25ft. Should NOT be installed under shadow of trees, buildings, poles, snowing regions, etc. Refer mounting instruction sheet for full information and limitations.
Luminaire accessories	Vertical PV panel (Optional)
Optional versions	Internal spill-light control louvre, OSB sensor
Certification/Listing	CE, ENEC, ENEC+
Inbuilt system protection	Battery reverse polarity, panel reverse polarity, battery over voltage, load short circuit, load disconnect, panel over voltage protection (>52V), charger over temperature and low temperature protection
Packaging content	1 piece per box without accessories



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