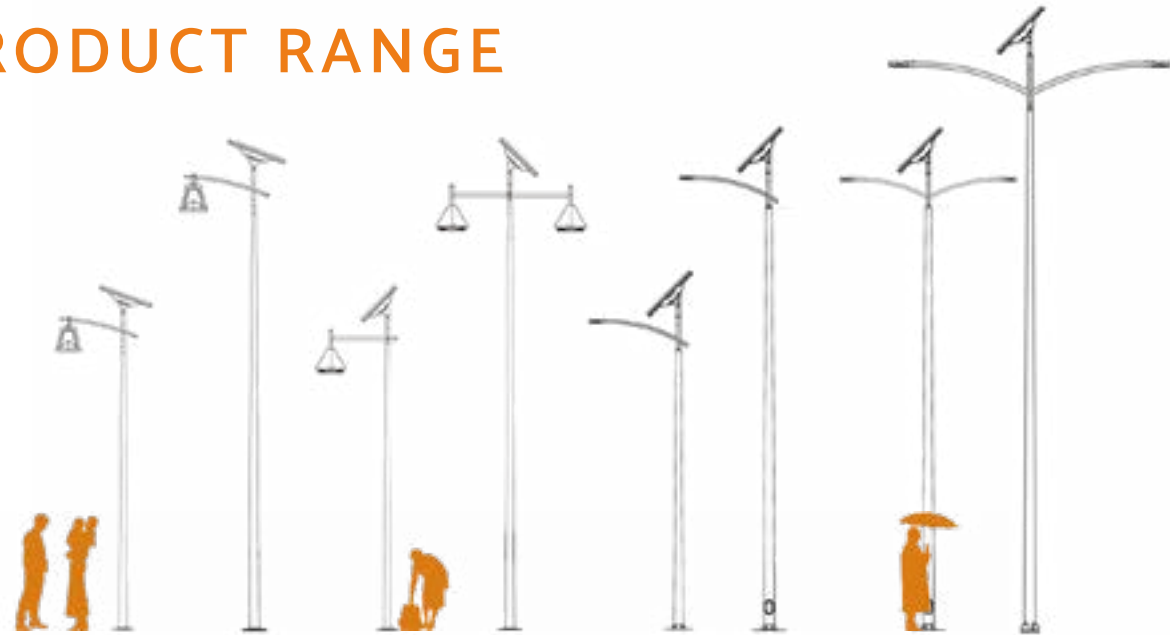




# Autonomous Solar Lighting



## PRODUCT RANGE



CONFIGURATION	SINGLE	TWIN	SUPER SINGLE	SUPER TWIN
LUMINAIRE QTY	1	2	1	2
Efficacy	190 LUMENS PER WATT			
Distribution Types	TYPE 2, 3 AND 4			
Color Temperature	3000K AND 4000K			
SOLAR CAPACITY	160W-310W	160W-310W	520W-620W	520W-620W
BATTERY CAPACITY	312-1248WHR	312-1248WHR	1248-2496WHR	1248-2496WHR
ARMS	4',6' SINGLE	4',6' TWIN	4',6' SINGLE	4',6' TWIN
STD. POLE HEIGHTS	14',20',25'	14',20',25'	20',25'	20',25'
POLE TYPES	Round Tapered Direct Burial Or Anchor Base			



### ESSENTIAL CK16 LUMINAIRE

The Essential CK16's sleek, unobtrusive profile is welcome in most any setting. Our standard lighting option is effective for roadways, parking lots, trails and parks.



### OPERA

Fonroche has reinterpreted the traditional pendant lantern to create the new OPERA. Designed specifically for the Fonroche SmartLight solar lighting system, the OPERA lends style and grace to any environment.



### BELLE EPOQUE

The BELLE EPOQUE luminaire takes the traditional post top design and turns it on end, adding a healthy dose of modernity. Designed for Fonroche SmartLight solar lighting systems, the BELLE EPOQUE is a nostalgic nod to the past with a view toward the future.



## POWERFUL BENEFITS

Adding new grid-connected lighting is like investing in the past. Advanced solar street lighting from Fonroche brings you a wealth of benefits—financial, environmental, and much more. Here are just some of the reasons why Fonroche beats the grid.



### SAVES MONEY

We save you money right from the start, eliminating the cost of trenching, wiring, switchgear, and soil remediation. Then we cut electricity costs, year after year—because the sun doesn't send you a bill. And it never experiences outages.



### NO MAINTENANCE FOR A DECADE

Thanks to meticulous design and advanced battery technology, our solar lighting systems run year after year, creating light with no scheduled maintenance for 10+ years.



### SAVES TIME

Smart design and fast installation save time. Our lights are up and running in just hours. And there is no waiting for a hook-up.



### ELIMINATES EMISSIONS

Our solar lighting systems let you add new light to key areas without adding more CO2 emissions. Serve the people while saving the planet.



### LIGHT AT NIGHT GUARANTEED

We guarantee that you'll get the appropriate light levels you need—365 nights a year – even during utility power outages.

# ADVANTAGES

## PANELS

High efficiency Crystalline Cells  
 Self-Cleaning (Hydrophobic) coating to maintain optimal performance  
 Black Tie Finish – Black cells, backing sheet and frame give a polished appearance by day and disappear at night

## LUMINAIRES

Style options to meet your aesthetic needs  
 Compliant fixtures for dark-sky and IES guidelines  
 Efficacy up to 190 lumens per watt

## POLES

A selection of poles to meet your local requirements, available in both direct burial and anchor base configurations. Sized to meet your local wind loading and certification specifications.

## STEEL MOUNTING PLATE

Keeps high-value components out of sight  
 Deflects bullets and projectiles

## PLUG AND PLAY

Full replacement warranty (not pro-rated)  
 Modular, IP65 power-center guarantees speedy, error free installation and maintenance

## POWER 365 POWER CENTER

## NIMH BATTERY FORMULATION

Unique NiMH battery chemistry offers 10-year+ expected life in all climates (-40°F to +158°F).  
 Slim profile with plenty of storage for year-round all-night operation  
 Ship by air or ground. Non-dangerous goods by the ICAO, IATA, IATA special provisions A199, and IMDG  
 Service Life 10-12 Years

## LORA MODULE - FONROCHE CONNECT

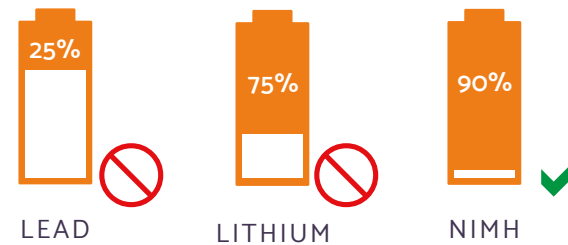
Optional LoRa module enables wireless central control and monitoring



## SMARTLIGHT PROCESSOR

Battery Management System (BMS) maintains battery life and maximizes performance  
 Programmable lighting profiles with up to 3 light levels per night  
 Anti-Blackout function prevents outages

## EXCEPTIONAL BATTERY LIFE



## DEPTH OF DISCHARGE

The SmartLight maintains a 3,650 cycle life even when deeply discharged in hot climates. This means you can use more of your storage without giving up battery life.

## CHARGING TEMPERATURE

Fonroche's industrial NiMH battery formulation charges and discharges in temperatures from -40°F to +158°F.

Lithium-ion batteries discharge in cold but don't accept a charge below freezing without damage. Heat quickly shrinks the life of lead acid batteries.



## FONROCHE CONNECT

An optional Fonroche Connect Gateway creates a solar lighting network that provides you with greater control and responsiveness.

Fonroche  
connect







### SOLUTIONS FOR PROFESSIONALS

Governments and commercial businesses are facing new demands for safety, sustainability, and resilience. Whether you are a mayor or a developer responding to pressure for greater sustainability or a traffic engineer addressing an accident-prone rural intersection, there's a SmartLight solution for you.

Public Works, Facilities and Parks Directors know that solar lighting is often the lowest cost solution, and they love the 10-year maintenance cycle for SmartLight.



### ROADWAY AND STREET LIGHTING

Solar lighting can transform underserved and aging neighborhoods. Lighting provides safety and security, while enhancing quality of life. Lighting also improves safety for roadways, crosswalks, and intersections, particularly during emergencies when utility power may have failed. Plus, SmartLight eliminates the possibility of wire-theft.



### PARKING LOTS

Great lighting is good for business and can help protect you from liability. With no trenching or boring, installation is quick and easy. Our sustainable lighting solutions will keep the neighbors happy too. We provide lighting designs to prevent light pollution and light trespass.



### PARKS AND PATHWAYS

Parks have never been more important. They support water management, social gatherings, healthy lifestyles, and commuting alternatives. Without adequate lighting, they just aren't accessible much of the time. Solar lighting offers an elegant solution. It doesn't require long wire runs, landscape repair and, as an added benefit, it's flood tolerant.

Fonroche Lighting America is proud to be part of Fonroche Lighting, the global leader in off-grid solar street lighting. The deep resources and broader scope of an established market leader lets us take

solar lighting even further, from the State Treasury in Salem, Oregon to the West African Republic of Senegal. Over 150,000 Fonroche SmartLight systems have been deployed world-wide.



With six offices in the USA and installations across the country, Fonroche is never far away. Some solution providers enter the solar lighting market—then move on. We’re a reliable partner that sticks around. You get the responsive support and smart answers that you need now—and the confidence that we’ll be here for you far in the future.

## CONTACT US FOR MORE INFORMATION

4900 DAVID STRICKLAND RD.  
FORT WORTH, TEXAS 76119

SALES@FONROCHE.US  
339-225-4530 EXT. 1

FONROCHE LIGHTING AMERICA  
FONROCHESOLARLIGHTING.COM

