



Engineers of world class quality solar street lights
169 Manufacturers Drive Holland, MI 49424 USA
Front Desk 616.399.6166 | Technical Support 616.399.6173
www.solarstreetlightsusa.com



Grid Free™ Battery/Solar Powered Street Light

We Turn Your Dark Into Light Courtesy Of Our Brilliant Sun®

Now you can add light virtually anywhere and provide years of efficient, maintenance-free lighting for off-electrical grid applications. "GridFree™" combines the reliability and exceptional performance of induction lights with advanced solar power generation. GridFree™ is a unique, Made-in-America product especially designed to meet the demanding performance and lighting needs of roadway engineers, the military, landscape architects, and outdoor lighting professionals.

GridFree™ features:

- Turn-key - GridFree™ takes less than an hour to pole mount, no crane is required
- Standard light wattages range from 40 to 70 watts, other sizes are available
- Operates dusk-to-dawn at full intensity, reduces risk inherent with dim-down systems
- Induction lights is a proven and stable technology, there is no guessing or performance data extrapolations
- Long bulb lifespan, 70,000 to 100,000 hours, replacement parts are less than \$180
- Cobra head or Shoebox style, other options available
- "Instant-on" capability, allows for security lighting with motion sensor
- UL approved components, designed to meet IESNA standards



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Specifications: Grid Free™ Induction Solar Powered Lamp

GridFree™ features (continued):

- Temperature compensating, MPPT controller , increases efficiency up to 19% (standard PWM controller optional)
- Brilliant Sun™ architectural top of pole mount withstands high winds,
- Locking NEMA 3R battery and electronics enclosure, optional cooling fans
- Long life, deep cycle gel cell batteries with 6-8 year life
- Mounts on steel and wood poles
- Can be colorized to any PMS color; many structural and cosmetic options available
- High energy conversion efficiency, Ultra-high performance and high lumens per dollar invested

GridFree™ is an off-grid Solar induction light. The Cobra head, a roadway level light comes in a single 40 watt, dual 40 watt, and a single 70 watt. The Shoebox head, a parking lot light, comes in 70 watts. Larger wattages are available on a custom order basis for most locations.

It is a turn-key assembly that mounts on a Solar Street Lights USA square steel pole or on a customer supplied wood or steel pole. One installer in a bucket truck can safely install each unit on a pole in less than 45 minutes. The assembly includes Brilliant Sun™ top-of-pole mount with solar modules; Cobra head fixture and fixture arm; or a shoebox fixture. The assembly also include Battery/electronics enclosure, batteries, electronics, sensors, fuses, fuse blocks and a complete set of wiring bundles with spare connectors. Every wiring bundle is color coded and numbered for simple plug-and-play installation. The installation kit comes complete with guides and a compass for proper PV array alignment. Solar Street Light USA's optional pole is pre-drilled and is pre-strung to reduce field time and error. Each solar light assembly is factory tested to ensure fit so that the installer has no surprises in the field.

Every solar lighting system is analyzed for light and system performance and is validated against the customer's application design criteria. The core product is engineered for rugged use and is designed to minimize up-front investment and to reduce maintenance costs and field time. Optional designs are available for deployment into aggressive climatic or physical environments. Each assembly uses heavy gauge material and stainless hardware. Steels are hot dipped and galvanized and can be optionally powder coated. This product and it's subcomponents are truly made in America. It is also why Solar Street Lights USA can offer a 10 year warranty.

Note — Entire Assembly (accept module frames) can be optionally powder coated in any PMS color!

GridFree™ System — Base Models include 4 foot light arm. Pole it optional

Base Model No.	Modules	Battery Voltage & Ahr	Battery Qty	Lights
GF17521080401	1	12 Volts-108AHR	2	Single 40 Watt-Type III
GF35021080401	2	12 Volts-108AHR	2	Single 40 Watt-Type III
GF35041080701	2	12 Volts-108AHR	4	Single 70 Watt-Type III
GF35041080402	2	12 Volts-108AHR	4	Dual 40 Watt-Type III
GF52521080401	3	12 Volts-108AHR	2	Single 40 Watt-Type III
GF52541080701	3	12 Volts-108AHR	4	Single 70 Watt-Type III
GF52541080402	3	12 Volts-108AHR	4	Dual 40 Watt-Type III
GF52542100401	3	6 Volts-210AHR	4	Single 40 Watt-Type III
GF52542100701	3	6 Volts-210AHR	4	Single 70 Watt-Type III
GF52542100702	3	6 Volts-210AHR	4	Dual 40 Watt-Type III

Options not listed below — Consult with your sales specialist

SSLStdP20	5"x 5'x 5/16" wall x 20' pole with tenon and anchor bolts	SSLArm08	Upgrade from 4' to 8' lighting arm
SSLStdP18	5"x 5'x 5/16" wall x 18' pole with tenon and anchor bolts	SSLArm06	Motion sensor
SSLStdP16	5"x 5'x 5/16" wall x 16' pole with tenon and anchor bolts	SSLAdk01	Class B and class C wood pole adapter kit
SSLArm06	Upgrade from 4' to 6' lighting arm		

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Light Assembly:

- 40 Watt – 3350 Lumens, 5000 Kelvin, 82-85 CRI
- 70 Watt – 5900 Lumens, 5000 Kelvin, 82-85 CRI
- Cobra head with Dark Sky Compliant lens
- Optional Shoe box with 70 Watt Light
- Enhanced Cobra head version for highway and optimum distribution
- 4 foot Cobra head arm, 6 foot, 8, foot, 10 foot options.
- Can be powder coated per PMS specification

Battery/Electronics Enclosure:

- Heavy gauge 1/8" aluminum with welded seams
- Front door: stainless steel hinge and gasketed – lockable
- Vents: screened vent on front door
- Mounting: two tabs top and bottom for fasteners
- Rubber sheet at bottom for battery protection
- Color per owner- powder coated finish
- NEMA 3R rated, other ratings available including Stainless Steel
- Optional. cooling fans and shelf for other equipment

Charge Controller/ Light Controller:

- 24VDC MPPT with light controller
- Adjustable for on/off times
- Settable for gel cell battery charge curve
- PWM charge regulation
- Factory mounted in battery box
- Controller automatically adjusts for seasonal light changes

Solar Panels:

- Standard packages include 175 (minimum) watt Mono-Crystalline solar panel
- Deep framed optional panels for high wind areas
- Optional back shields and bird deterrents
- 25 year warranty

Brilliant Sun™ Top of Pole Mount

- Field adjustable for maximum solar panel performance — latitude and true south
- Heavy gauge 3/16 steel frame
- Rated for 130 MPH
- Hot dipped galvanized after fabrication — optional color per owner
- Mount on solar street light 5" x 5" pole, other mounts available
- Supports 1 to 4 modules
- Strong but light, only weighs 70 pounds

Wiring Harness:

- 12 gauge UL duplex cable – soft copper stranded core
- Male/female AMP plugs for easy connection
- Heat shrink type terminal ends at batteries
- Numbered and color coded for easy installation

