

## 12V and 24V Medium-Base Bulbs

These low-cost bulbs are the least efficient of all the lamps we sell, but they are still better than 30% more efficient than 120-volt lamps. They have a standard medium base, so they fit into sockets found in most 120 VAC fixtures. AC lamp sockets rated for up to 300 watts at 120 VAC can usually handle up to 50 watts at 12 VDC. Use 600-watt rated sockets for 100-watt 12-volt bulbs. 300-watt rated sockets are good for 100 watts at 24 volts.



Volts	Watts	Length	Item code	Price
12	25	4"	066-00025	\$2
12	50	4"	066-00029	\$2
12	75	5"	066-00033	\$4
12	100	5.5"	066-00037	\$4
24	25	4"	066-00139	\$5
24	50	4"	066-00143	\$5
24	100	5.5"	066-00147	\$9

## Low-Voltage Compact Fluorescent Lamps

CFL (compact fluorescent lamps) lighting provides very high illumination levels with an 80% savings in power consumption compared to incandescent lamps. These high quality DC lamps are designed to be used in 12-volt and 24-volt battery systems. Cool-white 6400°K lamps provide a bright blue-white glow. Warm-white 2700°K lamps provide a light similar to incandescent lamps. The life span of the lamp is more than 6,000 hours. A special electronic circuit guarantees more than 50,000 switching cycles. The lamps have a standard E27/Edison socket. 2-year warranty.



Nominal voltage	Lamp type	Watts	Color temp.	Dimensions L" x dia."	Item code	Price
12	Spiral	7.5	2700K	4½ x 1¾	066-02131	\$14
12	Spiral	11	2700K	4½ x 1¾	066-02138	\$14
12	Spiral	11	6400K	5 x 2¼	066-02139	\$14
12	Spiral	15	2700K	5 x 2¼	066-02150	\$20
12	Spiral	15	6400K	5 x 2¼	066-02152	\$20
12	3 U tube	30	6400K	8 x 3	066-02170	\$35
12	3 U tube	30	2700K	8 x 3	066-02172	\$35
24	Spiral	15	2700K	5 x 2¼	066-02261	\$20
24	Spiral	15	6400K	5 x 2¼	066-02263	\$20

## Dr. LED

### 12V LED Lamps

These 12-volt LED lamps are specially designed to replace most Edison medium screw base incandescent bulbs used in reading lights. These U.S. made high-flux LED bulbs produce a warm white light and are fabricated from the highest quality components to assure long life and trouble-free functioning. Their incredibly low power draw (1W or 3W) makes them the perfect way to reduce energy consumption. High-flux LEDs, the latest LED technology, out-perform cluster LEDs in all respects.



Description	Amps	Diameter	Length	Item code	Price
12 volt 3 watt Bulb	0.3	2.0"	2.0"	066-04232	\$40
12 volt 1 watt Bulb	0.12	2.0"	2.0"	066-04238	\$30

### Luxeon 12V LED Flood Lamp

Luxeon new technology is too bright to look directly into and provides a wide light spread angle. Has internal voltage regulator for constant full brightness with varying battery voltage. Screw in.



Description	Amps	Item code	Price
Luxeon LED flood	0.2	066-04107	\$55

### 12V LED Cabin Light

This high-efficiency, wall-mount 12-volt light has an adjustable swivel that puts the light where you want it. It has a push button on/off switch and three ultra-bright white LEDs. All parts are plastic. Power consumption is only 30mA, less than 1/2 watt.



Description	Watts	Item code	Price
LED cabin light	0.5	066-04503	\$32

## 24V Cobra Head LED Street Light



These high-performance weatherproof lights are designed to be mounted on a 30- to 35-foot pole for street or parking lot lighting. They put out a very bright, even light covering 100 feet from side to side and 20 feet out from the pole. For street lighting, place one every 100 feet.

The aluminum die-cast housing dimensions are 25.6" long x 12.6" wide x 7.8" deep and mount on a 1.25" to 2.5" pipe. Operating temperature is from -20C to +40C. Power consumption is 2.3 amps at 24 VDC.

Model	Watts	Lumens	Item code	Price
SL-H2-CW	55	3500	066-05901	\$865

## 24V Round LED Street Light



These weatherproof lights are designed to be mounted on a 10 to 20 foot pole for street or parking lot lighting. They put out a very bright, even light covering a 30-foot circle. For area lighting, place one every 30 feet. The aluminum die-cast housing dimensions are 15.4" diameter x 7.1" deep. It mounts from the top. Operating temperature is from -20C to +40C. Power consumption is 2.3 amps at 24 VDC.

Model	Watts	Lumens	Item code	Price
SL-L1-CW	55	3500	066-05905	\$865

## 12V Low-Pressure Sodium Outdoor Light



These are 12-volt versions of common LPS street lights. Low pressure sodium give the most lumens per watt of power consumed, but the light is an orange-pink color. Cast aluminum housing has a vandal resistant polycarbonate diffuser. A wall or wood pole mount bracket is included. Warm-up time is 7 to 10 minutes. Also has a photocell and a

1 to 15 hour adjustable timer may be used or by-passed. Weight is 6.30 lbs (2.857 kg).

Model	Watts	Lumens	Item code	Price
LPS-118LT	18	1800	066-05818	\$380
LPS-135LT	35	4800	066-05821	\$380

## 12V Fluorescent Outdoor Flood Light



These weatherproof lights are designed to meet the demand for solar powered sign lighting and area lighting. They have ½" male pipe thread mounts and can be used for up lighting or down lighting. They use an electronic ballast that will operate down to -20°F. Replacement fluorescent tube is S/E 13-watt tube. This light uses 1 amp at 12VDC.

Description	Watts	Item code	Price
12V fluorescent flood	13	066-02478	\$75

## ADVERTISEMENT

# American Solar Electric

## Solar Coach Light



The Solar Coach Light is a commercial solid metal light fixture with integrated solar modules, designed to light streets and yards. It has 42 powerful extra-bright LEDs, 18 watts of charging solar modules, an automatic on/off light sensor and a 12-volt, 12 amp-hour sealed battery. This is no garden light. The Solar Coach Light will stay on over 30 hours (that's 2-4 nights depending on time of year) without sunlight charge. The solar modules are guaranteed for 10 years and are made of tempered glass, monocrystalline and Tedlar lamination (just like large commercial-grade modules). The battery should last 1-3 years, depending on temperature, and the LEDs should last 30,000 hours. It was originally designed for Las Vegas and the southwestern states to replace the resource-wasting gas lights that are sold by the gas company and remain on 24 hours per day. When gas was cheap, the idea of burning the lamps day and night seemed acceptable, but now with higher natural gas prices, it has become very costly. The Solar Coach Light offers a sustainable, eco-friendly, reliable, and beautiful alternative.

Description	Item code	Price
Solar Coach Light	066-04581	\$1,240

## Solar Streetlights

These solar street lights use induction lamp technology to provide very high energy conversion efficiency. Induction lighting offers minor declining light output with age compared to other lamp types, instant-on, and significant cost savings in energy and maintenance.

Complete systems come with the solar modules, light assembly, battery box, batteries, charge controller, and all wiring and hardware. Systems are available with a 40-watt lamp that delivers 3350 lumens and a 70-watt lamp that delivers 6500 lumens.

Solar modules have a 25-year power output guarantee and all other components are have a 5-year warranty.

A grid-tie version is available without batteries. The grid-tie light sends power to the grid during the day with a microinverter, and the induction lamp uses the power at night. It is designed to be carbon and energy-use neutral. There is no battery backup for power outages. Grid-tie lighting is available with either a 100-watt or 150-watt induction light fixture.

Optional 5 x 5 inch square hot-dipped galvanized steel poles come with 30-inch long, 1-inch diameter anchor bolts and is rated for either 110 or 140 MPH wind.



### Standalone Lighting with Batteries (poles not included)

Model number	Min sun hours/day required	Solar module watts	Solar module quantity	Lamp watts	Lamp lumens	Battery amp-hours at 24V	Item code	Price
SSL 40/170	3	170	1	40	3350	96	066-05311	\$4,900
SSL 40/340	1.5	170	2	40	3350	96	066-05315	\$5,670
SSL 70/340	3	170	2	70	6500	190	066-05319	\$6,570

### Grid-Tie Lighting without Batteries (poles not included)

GT 170-100/240	100 watt light, 170 watt solar module and microinverter - 240 VAC						066-05322	\$3,652
GT 170-100/208	100 watt light, 170 watt solar module and microinverter - 208 VAC						066-05324	\$3,652
GT 205-150/240	150 watt light, 205 watt solar module and microinverter -240 VAC						066-05326	\$4,020
GT 205-150/208	150 watt light, 205 watt solar module and microinverter -208 VAC						066-05328	\$4,020

### 5" x 5" Light Poles

POLE 20	20 foot 5 x 5 inch pole rated for 110 MPH wind with anchor bolts	066-05341	\$1,200
POLE 20HW	20 foot 5 x 5 inch pole rated for 140 MPH wind with anchor bolts	066-05342	\$1,350
POLE 25	25 foot 5 x 5 inch pole rated for 110 MPH wind with anchor bolts	066-05343	\$1,305
POLE 25HW	25 foot 5 x 5 inch pole rated for 140 MPH wind with anchor bolts	066-05344	\$1,440

## Thin-Lite Low-Voltage Fluorescent Lighting

Thin-Lite 12-volt and 24-volt fluorescent fixtures are efficient and attractive. Anodized aluminum housing and clear acrylic diffuser lenses provide high light output on three sides. They are designed for commercial and industrial vehicles, and for use in remote area housing, schools and medical facilities in conjunction with alternative sources of energy. Comes with tube and ballast. Some models come with a switch on the side. These fixtures use the same standard fluorescent tubes as AC fluorescent fixtures. Replacements can be purchased locally. 1-year warranty.

Thin-Lite model	Fluorescent tube watts	# of tubes	Lumens	Volts	Amps	Switch	Dimensions L" x W" x D"	Item code	Price
193	15	1	870	12	1.3	yes	18 x 2.25 x 2.44	066-02431	\$35
194	15	2	1740	12	2.1	yes	18 x 4.5 x 1.5	066-02439	\$48
181	20	1	1250	12	1.6	no	24 x 3.63 x 3.5	066-02435	\$47
957	36	1	2618	12	2.45	no	18.9 x 4.5 x 1.5	066-02441	\$62
281	20	1	1250	24	0.8	no	24 x 3.63 x 3.5	066-02464	\$55



181 &amp; 281



193



194



957

## Flexcharge

### Timer



The Flexcharge digital timer is a 7-day, 8-event digital clock based programmable load controller. Eight ON and eight OFF events can be programmed independently, each with its own unique timing pattern. For example: Use one ON event to turn a light on at 7 pm every day, then use seven OFF events to turn the light off at a different time each day. The replaceable internal battery maintains the clock and programmed memory in the event of a system power failure for up to 3 months. It consumes less than 3mA in standby mode. Internal DPST (double-pole-single-throw) relay switch can turn one load on at the same time it turns another load off. Timer switch can handle up to 8 amps of inductive load or up to 16 amps of resistive load at 6-36 VDC or 120 VAC. The timer is reverse polarity protected and runs off 12 volts AC or DC. Manual override allows the user to turn the load ON or OFF as desired.

Easy-to-use terminal block for wiring. Dry contacts. 1-year warranty. Dimensions: 3.9"W x 3.8"H x 2"D

Description	Item code	Price
Flexcharge timer	054-07120	\$90

### Night Watchman 12V Photoswitch

The Flexcharge Night Watchman dusk-to-dawn controller is designed to be mounted outside in a marine salt air environment. It is completely waterproof, and very small (1" x 1" x 1") for mounting in an inconspicuous location.

Because power consumption is always a concern on battery powered systems (sail boats, PV systems, etc.) the Night Watchman is designed to use an extremely small amount of power in standby mode (only 0015A or 0.15mA), yet it is capable of supplying up to 10A of load current.

The Night Watchman will turn 12V incandescent or fluorescent lights ON in the evening within a half hour of sunset, and OFF in the morning within a half hour of sun rise.

The Night Watchman's circuitry is designed to prevent flickering, so it can be used to control 12V fluorescent lamps. 1-year warranty.



Description	Item code	Price
Night Watchman photoswitch	054-07215	\$42

## RAB

### 12V Motion Sensor Switch

The RAB motion and heat sensing switch is 12-volt DC powered so it works full time even if your inverter is in standby or turned off. It turns lights on at approach and remains on for a user-adjustable 5 seconds to 20 minutes after motion stops. Sensitivity distance is adjustable to about 50 feet out, farther in colder weather. Connect it directly to any 12-volt light, or use a 12-volt relay to switch 120-volt lights. Set for night only operation, or use as security alarm, by setting for day/night operation. Switches - amp DC, uses only 7 milliamps at idle, 40 milliamps when activating. Switch uses only 7 milliamps at idle.

Description	Item code	Price
12V Motion sensor switch	054-07237	\$85



1-year warranty.