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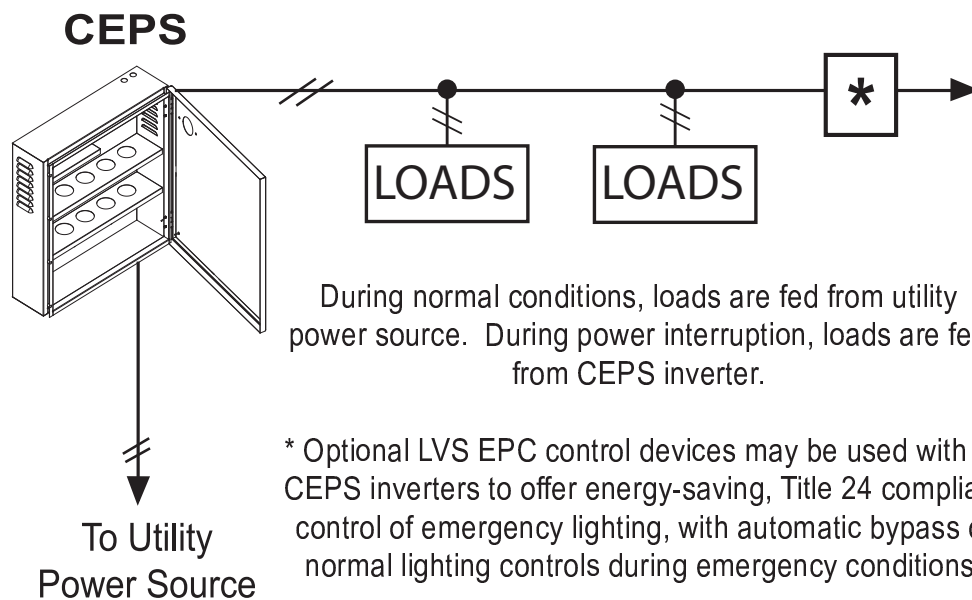
# CEPS Series

## UL924 Emergency Lighting Inverters

CEPS lighting inverters are a powerful, reliable, and cost effective way to meet emergency lighting and life safety requirements for a wide range of applications.

- ✓ Turn any fixture into an emergency fixture, with full light output, for 90 minutes.
- ✓ Compatible with LED, Electronic & Magnetic Fluorescent Ballasts, Incandescent, CFL, Halogen, Induction, and more.
- ✓ Safe & silent electronics designed for 25 year life to minimize waste and pollution.
- ✓ The right size for any project:  
**30W, 120W, 240W, 350W, 500W, 1000W, 1500W, 2000W** cabinet sizes available.
- ✓ Fully scalable architecture can handle projects from 10W to 100's of kW.
- ✓ Made and stocked in California for industry's shortest lead time.

### Inverter Powerline Diagram



**UL924  
LISTED**  
EMERGENCY  
LIGHTING  
EQUIPMENT



**MADE IN USA**  
ARRA Compliant



# Emergency Lighting Controls

*Maximizing System Efficiency*

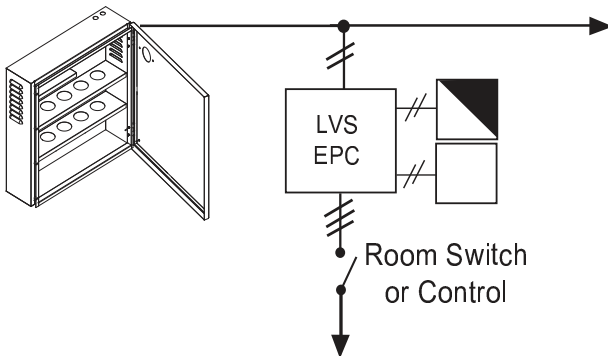
LVS' background and experience in lighting control systems gives us a unique perspective when designing emergency lighting inverter systems. Our two most popular control methods involve single circuit transfer switches and relays.

**Emergency Power Controls (EPC's)** allow emergency lighting to be switched or dimmed through a lighting control system, but automatically bypasses all controls during power interruption to ensure full-brightness of emergency lighting.

**Load Shedding Relays (RTS's)** provide a temporary reduction of load during a power interruption. Load shedding can extend system run-time or reduce the overall size of the inverter by reducing peak power requirements.

**Utility power mode:** Switch controls normal and emergency loads together.

**Battery power mode:** Emergency load is energized regardless of switch position.

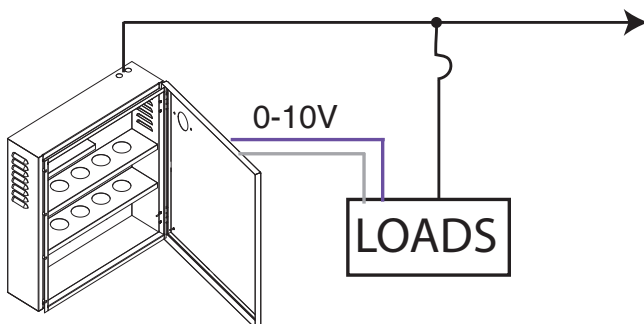


## Emergency Power Control

- ✓ Works with switched and dimmed emergency fixtures.
- ✓ Emergency lights can be switched off or dimmed during normal operation, saving energy over 24/7 "normally-on" nightlight systems.
- ✓ Emergency lights automatically illuminate during power interruption, regardless of switch position.

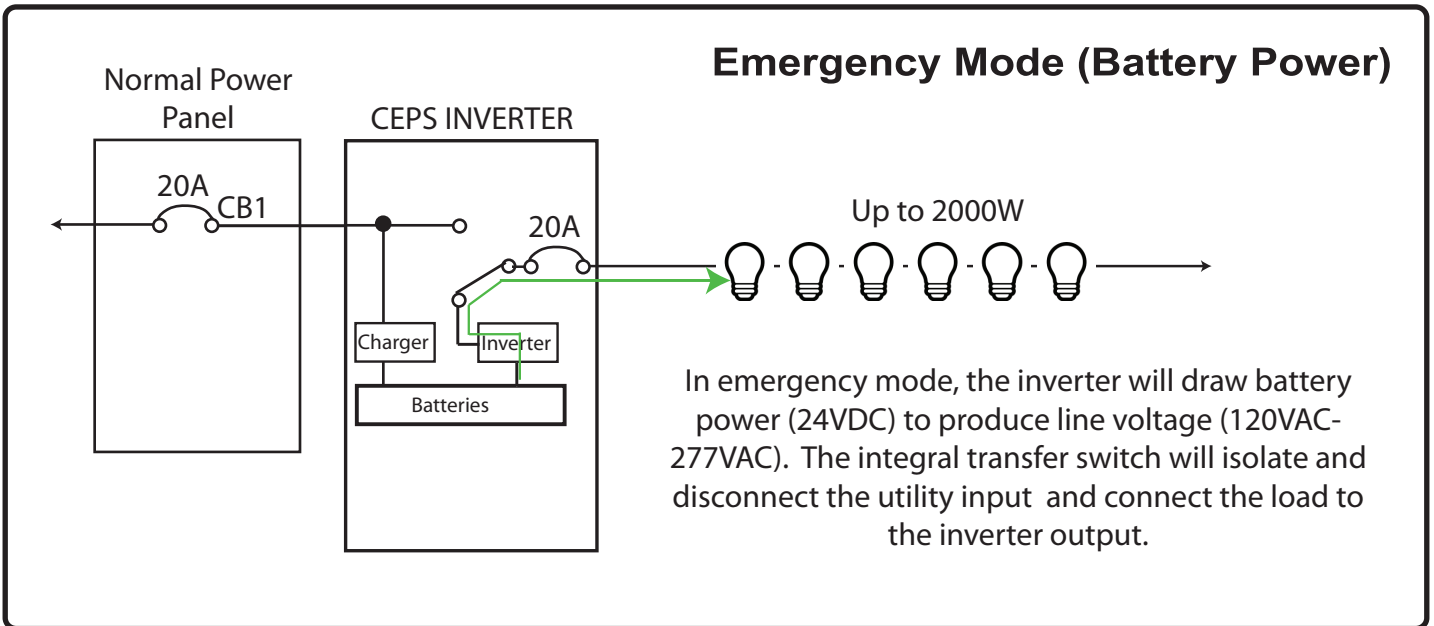
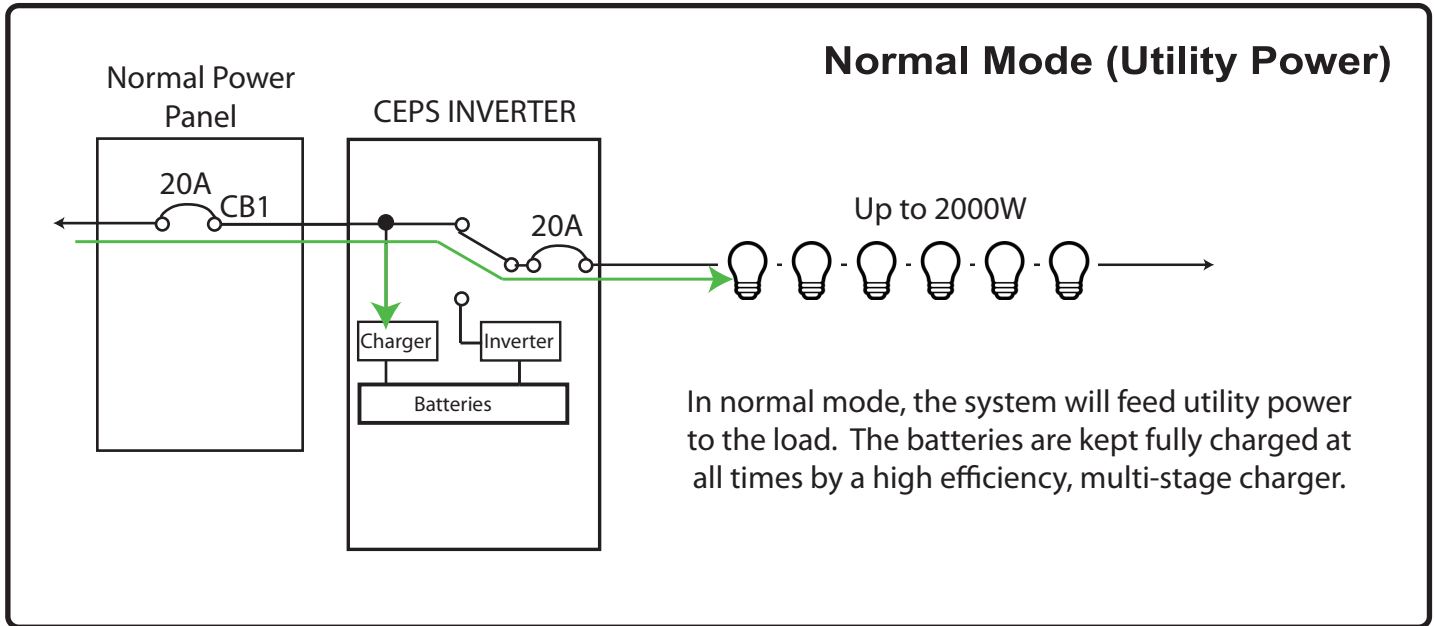
**Utility power mode:** Loads are 100% power

**Battery power mode:** Emergency loads are reduced to 30%, 50%, or 75% power (selectable).



## Low Voltage 0-10V Load Shedding

- ✓ Fine control of 0-10V LED's and Fluorescents, selectable dimmed levels (30%,50%,75%).
- ✓ Great for LED retrofits.
- ✓ Smaller inverter can be used for a given space and can extend run-time past standard 90 minutes if required.





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# CEPS Series

## Specification/RFQ Sheet

### Model CEPS-WATTAGE-VOLTAGE-WARRANTY

#### WATTAGE: Select module size:

- 30W       120W       240W  
 350W       500W       1000W  
 1500W       2000W

#### WARRANTY: Pro-rata battery term

- 3YR       6YR       10YR

*Note: 3 year full electronic warranty standard on all models*

#### INPUT VOLTAGE:

- 120V       240V       277V

#### Applications

- |                          |                  |
|--------------------------|------------------|
| Multi-Family Residential | Offices          |
| Schools                  | Factories        |
| Parking Garages          | Oil/Gas Services |
| Healthcare               | Railway Stations |
| Warehouses               | Tunnels/Bridges  |

#### OUTPUT VOLTAGE:

- 120V       240V       277V

### Safeguards & Special Features

- Self-resetting electronic overload protection  
 10A Time Delay Fuse (350W and smaller)  
 20A High Inrush Magnetic Breaker (500W+)
- 120 or 240 or 277VAC VAC Pure Sine Wave Output
- Automatic Output Voltage Tracking maintains output voltage at full load  $\pm 5\%$
- Operates fluorescents, dimmable fluorescent ballasts, CFL, LED, halogen & incandescent loads.
- Distortion (THD): Less than  $\pm 5\%$
- EMI in compliance with FCC Class A Regulation
- Test switch to simulate utility power loss.
- Normal Operation Efficiency: 98% at Full Load
- Sealed Lead Calcium batteries provide long life and are maintenance free.
- Small footprint
- Thermostat Controlled Silent Cooling Fan
- Load Power Factor: 0.9 leading to 0.9 lagging
- 1.5 seconds transfer time to protect against momentary ON/OFF voltage surges caused by power line hitting wet pavement or other power lines during a storm.
- Operating Temperature: 40°F to 100°F
- Frequency Regulation:  $\pm 5\%$
- Less than 3% Input Power Consumption when batteries are fully charged.
- Automatic low voltage battery disconnect, deep discharge protection, over-temperature shut down, and reverse polarity protection.