

LED

Emergency Drivers and Inverters

Frequently Asked Questions

1. Why choose an emergency lighting inverter instead of the BSL unit equipment LED emergency drivers?

If the lighting application uses an integrated (internal) AC driver, then an emergency inverter product must be used. Emergency lighting inverters can also be used with external AC drivers. Philips Bodine emergency driver products require access to the AC driver and LED array.

UL requires unit equipment to be factory installed.

2. What are the advantages of the ELI-S-20 or ELI-S-100 inverter vs. the ELI-250-SD inverter?

The ELI-S-20 and ELI-S-100 are significantly smaller than the ELI-250-SD and provide input power to the 120V or 277V system at sinusoidal line frequency, ideal for optimal LED operation. The ELI-S-100 also allows LED dimming in emergency mode. The ELI-250-SD produces a square wave output, which is not compatible with all ballast or driver designs.

3. What are the maximum remote mounting distances?

- ELI-S-20 or ELI-S-100 = 250 feet
 - ELI-250-SD = 1,000 feet
 - BSL products = 50 feet, or 1/2 the maximum remote distance for the AC driver, whichever is less
- Remote mounting for BSL must be included in OEM's UL Report.

4. Are the Philips Bodine emergency LED products UL Listed?

- The ELI-S-20 and ELI-S-100 Emergency Lighting Inverters are UL Listed and CSA Certified. (OEM or field installation)
- The ELI-250-SD is UL Listed. (Field installation)
- All BSL emergency drivers are UL Component Recognized. (OEM installation only)

5. Who should I call with questions?

Tech support: 1-888-263-4638

Sales: 1-800-223-5728

Ext: 1659 Reps/Distr.

Ext: 1673 OEM

How to choose the appropriate emergency product for LED applications

1. Is your application a screw-in LED lamp or linear LED lamp with an integrated (internal) AC driver?

| | |
|-----------|--|
| ELI-S-20 | Supports up to 25W of emergency illumination at full brightness for a minimum of 90 minutes. Provides input power to the integral LED driver at line voltage (120 or 277V) and at line frequency (sinusoidal 60Hz). |
| ELI-S-100 | Supports up to 100W of emergency illumination for a minimum of 90 minutes in emergency mode. Offers two important features for LED applications: dimming capabilities and sinusoidal output. May be connected to one or multiple fixtures. Available in ELI-S-100-120V model and ELI-S-100-277V model. |
| ELI-S-250 | Supports up to 250W of emergency illumination at full brightness for a minimum of 90 minutes. The ELI-S-250 has a square wave output in emergency mode that may NOT be compatible with some ballasts or drivers. Please check with your ballast/driver manufacturers to ensure their products are compatible with a square wave input. |

Note: ELI Series inverters also operate compact fluorescent lamps and incandescent lamps.



2. If your LED application uses an external AC driver and LED array:

| Product Family* | Features | Output Voltage (VDC) | Output Current (mA)** | Max. Output Power (W)** (emergency mode) |
|-----------------|--|----------------------|----------------------------------|--|
| BSL10 Cold-Pak | Operates in an extended-temperature range of -20°C to +55°C | 24 - 52 | 24VDC: 625 max 52VDC: 300 max | 10 (Average) |
| BSL17 | | 30 - 80 | 100 - 200 | 7 |
| BSL17-C2 | Designed for Class 2 applications; Compatible with Philips Fortimo | 15 - 50 | 100 - 270 | 7 |
| BSL20 LV | | 20 - 50 | 400 - 1000 | 20 |
| BSL20 MV | | 50 - 130 | 150 - 400 | 20 |
| BSL20 HV | | 125 - 200 | 100 - 160 | 20 |
| BSL23 | | 3 - 20 | 225 - 410 | 4.5 |
| BSL26 | | 3 - 30 | 120 - 265 | 5.1 |
| BSL310 | | 10 - 50 | 200 - 400 | 10 |
| BSL722 | Uses external battery packs to drive 2 LED arrays in parallel | 28 - 33 | 700 | 23.1 |
| BSL722 Cold | Drives 2 LED arrays in parallel using 2 external battery packs | 28 - 33 | 700 | 23.1 |

Note: * The products listed are the base model of each family. Please visit our website for a full list of model variations.

** Measured at nominal battery voltage

If the BSL products listed above will not work for your emergency application, please consider one of our ELI inverter products. All LED products are factory installed EXCEPT the BSL310, which may be field installed exclusively with the Philips EvoKit Retrofit.

