

**savr**

E-TFP-D Series  
Emergency LED  
Drivers



# savr E-TFP-D Series Emergency LED Drivers Installation Guide

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## savr E-TFP-D Series Emergency LED Drivers



## Specifications

- Product: E-TFP-D Series Emergency LED Drivers
- Power Source: Multiple power sources
- Battery: Sealed rechargeable NiCad battery
- AC Input: 120 to 277 volts
- Output: 5.0 Watts, 10.0 Watts, or 13.0 Watts in Emergency Mode

## Product Usage Instructions

### Installation

1. Ensure the Emergency driver meets the egress requirements.
2. Disconnect the normal AC power source to the luminaire.
3. Wiring: Emergency driver and AC LED Driver on the same branch circuit with unswitched AC power source.
4. Complete installation by switching AC power ON and joining the Emergency driver's converter connector.

### Operation

- **Normal Mode:** AC power present, LED lamp(s) operated by AC LED Driver. LCTS illuminated.
- **Emergency Mode:** AC power failure, Emergency Mode activated, LED lamps illuminated for 90 minutes.
- Battery charging resumes on AC power restoration.

### Testing and Maintenance

- Press LCTS to simulate AC power failure and test Emergency Mode.
- Monthly: Ensure LCTS is illuminated, conduct a 30-second test by depressing LCTS.
- Maintain written records of testing for inspection.

### System Coordination Guidelines

1. Determine Electrical Compatibility: Check Luminaire LED Driver compliance, operating voltage, and power rating.
2. Calculate Lumen Output During Emergency Operation.

## IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS:

1. The Emergency driver is designed for both factory or field installation only when determined to meet the as installed egress requirements as outlined on page 4 of these instructions.
2. Installation should be performed by qualified personnel only.
3. Install in accordance with the National Electric Code and applicable local codes.
4. The Emergency driver requires an unswitched AC power source of 120 to 277 volts, 50/60HZ.
5. The Emergency driver is suitable for use in dry and damp location where ambient temperature is 10 to 55°C. 6)

6. The Emergency driver should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
7. The Emergency driver is suitable for use only with LED lamps having an operating voltage of 20 Vdc minimum, 50 Vdc maximum and will provide 90 minutes of emergency operation.
8. To reduce the risk of electrical shock, do not connect BLEM series driver's converter connector until installation is complete and AC power is applied to the luminaire.
9. The Emergency driver has more than one power source.
10. To reduce the risk of electrical shock, remove the normal AC power sources to the luminaire and disconnect the Emergency driver's converter connector before servicing.
11. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and will void warranty.
12. Do not use this equipment for other than intended use.
13. Do not mount near gas or electric heaters. Servicing of this equipment should be performed by qualified personnel only.
14. The Emergency driver is a sealed unit. Components are not replaceable. Replace entire unit as needed.
15. The Emergency driver comes with a sealed rechargeable NiCad battery that must be recycled properly. Do not attempt to service the battery.

## **SAVE THESE IMPORTANT SAFETY INSTRUCTIONS**

The installation and use of this product must comply with all national, federal, state, municipal, or local codes that apply. Please read this manual thoroughly before installing or operating BLEM series Emergency LED Drivers.

## **WIRING THE AC INPUT**

- The Emergency driver and AC LED Driver must be on the same branch circuit.
- The Emergency driver requires an unswitched AC power source of 120 to 277 volts.
- When the Emergency driver is used in a switched luminaire, the AC input to the BLEM series driver must be connected to ahead of the luminaire switch (line side of luminaire switch). Refer to Figure 3. 5.

## **COMPLETING INSTALLATION**

When the installation is complete, switch the AC power ON and join the Emergency driver's converter connector. Refer to Figure 3.

## **OPERATION**

- Normal Mode – AC power is present. The AC LED Driver operates the LED lamp(s) as intended. The LCTS will be illuminated indicating that the Emergency driver is in the standby charging mode.
- Emergency Mode – AC power fails. The Emergency driver senses the AC power failure and automatically switches to Emergency Mode. One or multiple LED lamps will be illuminated for a minimum of 90 minutes. When AC power is restored, the Emergency driver switches the system back to the Normal Mode and resumes battery charging.

## **TESTING AND MAINTENANCE**

Pressing the LCTS simulates an AC power failure and forces the system into the Emergency Mode. Only the emergency LED lamp (s) will be illuminated. Testing may also be performed by opening circuit breaker powering the system.

- Initial Testing – Allow the unit to charge for approximately 1 hour, then press the LCTS to conduct a short test. Allow a 24 hour charge before conducting a 1 ½ hour test.
- Monthly – Ensure that the LCTS is illuminated. Conduct a 30 second test by depressing the LCTS
- Annually – Ensure that the LCTS is illuminated. Conduct a 1 ½ hour test by opening circuit breaker controlling the BLEM series driver(s) to be tested.

Written records of testing shall be kept on file for inspection by the authority having jurisdiction.

### System Coordination Guidelines

These guidelines were developed to allow the lighting system Designer/Specifier to predict the operating performance levels of LED luminaires when powered by an electrically compatible Emergency model. It is ultimately the responsibility of the Designer/Specifier to ensure that the as installed system delivers code-compliant path of egress illumination.

#### 1. Determine Electrical Compatibility

- Verify that the Luminaire LED Driver, where applicable, is Class 2 compliant.
- Verify that the Luminaire LED Lamp(s) have an operating voltage between 20Vdc and 50Vdc.
- Verify that the Luminaire LED Lamp(s) have a power rating equal to, or greater than, the emergency power rating of the Emergency driver model under consideration.

Refer to Table 1 below.

MODEL	EMERGENCY OUTPUT (CONSTANT)
Emergency driver	5.0 WATTS or 10.0 WATTS or 13.0 WATTS

#### Calculate Lumen Output During Emergency Operation

Emergency Driver Part Number	EM10	
Model	Watts	EM Lumens
E-TFPS42D-14USCCTW-EB	10	1300
E-TFPS42D-22USCCTW-EB	10	1300
E-TFPS52D-24USCCTW-EB	10	1300

#### Determine Suitability of Means of Egress Lighting Levels

- Using industry standard lighting design software, along with IES files for the luminaire under consideration, verify that the as installed available Lumens (as calculated in 2F above) are sufficient to meet Code-compliant path of egress illumination levels.

While the Emergency driver has been found compliant with the requirements of UL Standard 924, it is ultimately the responsibility of the Designer/Specifier to assure the as-installed system delivers code-compliant path of egress illumination in accordance with Federal, State or local municipal requirements.

FAQs

**Q: Can the sealed rechargeable NiCad battery be replaced?**

A: No, the components of the Emergency driver are not replaceable. The entire unit must be replaced when necessary.

**Q: How often should testing and maintenance be performed?**

A: Monthly testing is recommended to ensure proper functioning of the Emergency LED Drivers. Written records of testing should be maintained for inspection purposes.

Documents / Resources

<div><p><b>Installation And Operation Instructions</b> For E-TFP-D Series Emergency LED Drivers (20 Year - 50 Year Models)</p><p><b>IMPORTANT SAFEGUARDS</b> Read and follow all safety instructions to prevent injury or death.</p><p><b>READ AND FOLLOW ALL SAFETY INSTRUCTIONS:</b></p><ol style="list-style-type: none"><li>1. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>2. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>3. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>4. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>5. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>6. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>7. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>8. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>9. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>10. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>11. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>12. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>13. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>14. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>15. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>16. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>17. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>18. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>19. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li><li>20. Do not touch the emergency LED driver or the emergency LED driver assembly when the emergency LED driver or the emergency LED driver assembly is energized.</li></ol><p><b>SAVE THESE IMPORTANT SAFETY INSTRUCTIONS</b> The instructions and safety precautions must be read and understood before using the emergency LED driver or the emergency LED driver assembly. The instructions and safety precautions must be read and understood before using the emergency LED driver or the emergency LED driver assembly. The instructions and safety precautions must be read and understood before using the emergency LED driver or the emergency LED driver assembly.</p></div>	<p><a href="#">savr E-TFP-D Series Emergency LED Drivers</a> [pdf] Installation Guide E-TFP-D Series, E-TFP-C Series, E-TFP-D Series Emergency LED Drivers, E-TFP-D Series, E mergency LED Drivers, LED Drivers, Drivers</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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