

Installation Instructions

NEPK-23LEDUNV

23W Emergency LED Driver with Remote Test Switch

READ PRIOR TO ATTEMPTING INSTALLATION

ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION

INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN



IMPORTANT SAFEGUARDS

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

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**CAUTION:** Before installation, turn off main power supply.

**CAUTION:** RISK OF SHOCK - disconnect emergency and normal input power sources before servicing any equipment connected to this unit.

**CAUTION:** RISK OF FIRE OR ELECTRIC SHOCK - This emergency battery pack installation requires knowledge of luminaire and electrical systems.

**CAUTION:** Servicing of this equipment should be performed by a qualified personnel only.

**CAUTION:** Verify that all replacement lamp types marked on the installed luminaire are also identified as suitable for use with this emergency battery pack.

**CAUTION:** The use of accessory equipment is not recommended by the manufacturer may cause an unsafe condition.

**CAUTION:** Do not use this equipment for other than its intended use.

**CAUTION:** Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

**CAUTION:** The emergency battery pack is not for in an air-handling fixture.

**TESTING SYSTEM:** The emergency battery requires a charge minimum of one(1) hour before testing the circuit. A full charge requires twenty-four(24) hours.

**CAUTION:** An unswitched AC power source is required (100-277VAC, 50/60Hz).

**CAUTION:** Please charge the battery consistently for >24 hours for the first time usage so as to activate the whole battery cells of discharging/charging duration.

**CAUTION:** Customers are advised to charge emergency LED drivers 24 hours every 6 months during storage, and which could be stocked for 1 year at most. If customers do not install and recharge for more than 1 year, the batteries may be damaged, This is not covered in the warranty, and we would charge for replacement.

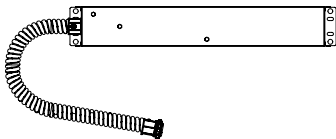
**CAUTION:** Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility test before using and final installation.

**CAUTION:** Do not use outdoors.

**CAUTION:** Do not mount near gas or electric heaters.



PACKAGING CONTENTS



NEPK-23LEDUNV



LED Test Switch with Wall Plate



(6) Wire Nuts, Twist-Lock



(2) 8-32 Machine Screws  
0.6" Long

LED INDICATOR AND TROUBLESHOOTING GUIDE

LED Indicator Status	Mode
Solid Red	Battery is charging
Solid Green	Battery is fully charged
Flashing Green	Self-diagnostic test
None	In emergency mode or battery is discharged

LED Indicator Status	Possible Causes	Troubleshooting
Flashing Red	<ul style="list-style-type: none"><li>LED Load was short circuit, over current or open circuit.</li><li>Output circuit fail in emergency mode.</li></ul>	<ul style="list-style-type: none"><li>Check for short circuit, over current or open circuit at the output leads</li></ul>
Flashing Red x2	<ul style="list-style-type: none"><li>Charging failure</li></ul>	<ul style="list-style-type: none"><li>Check input leads for Unswitched Hot, Line, and Neutral</li><li>Verify input voltage and frequency</li></ul>
Flashing Red x3	<ul style="list-style-type: none"><li>Battery not connected</li><li>Battery failure</li></ul>	<ul style="list-style-type: none"><li>Check battery switch or connection</li></ul>
Flashing Red x4	<ul style="list-style-type: none"><li>Self-diagnostic test did not meet full duration</li></ul>	<ul style="list-style-type: none"><li>Charge the unit for 24 hours and rerun the self-diagnostic test</li></ul>

# Installation Instructions

## NEPK-23LEDUNV

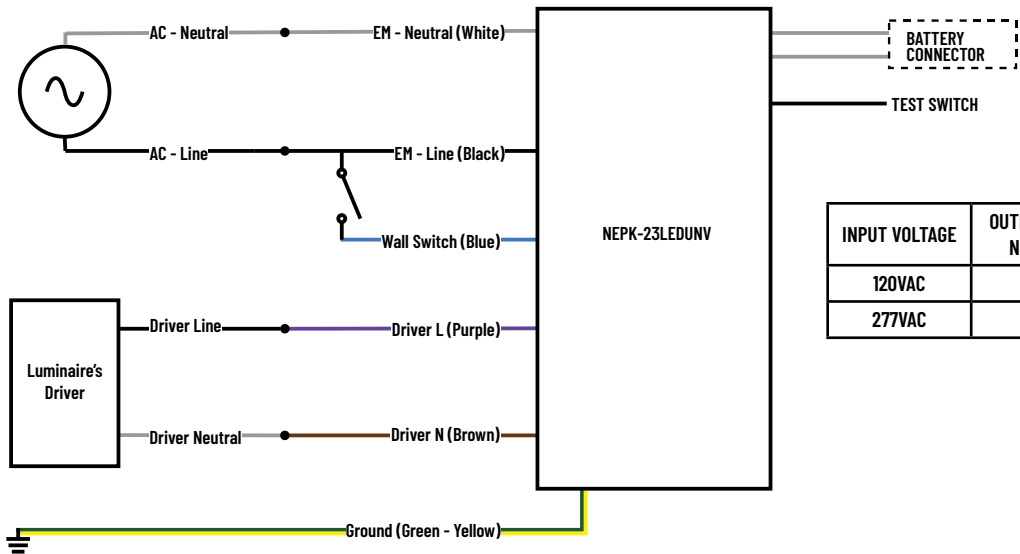
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#### WIRING DIAGRAM FOR NEPK-23LEDUNV

1. Follow the wiring diagram to connect the EM unit to luminaire.
2. After installation is completed, turn on power to confirm the EM and luminaire are functioning properly.  
Use the LED indicator chart to confirm the EM unit is operating properly or to troubleshoot.

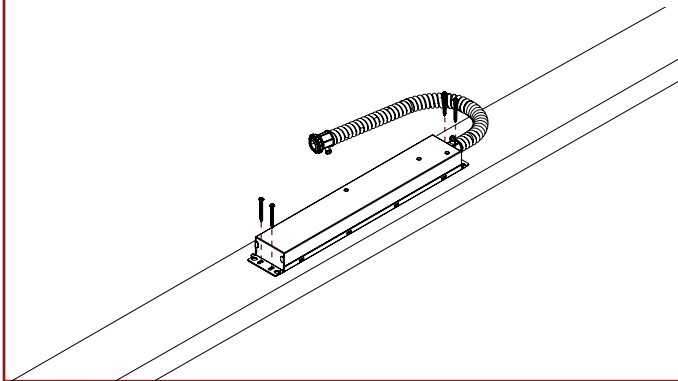
**NOTE:** It is recommended to use no more than 90% of the maximum power rating (23W).



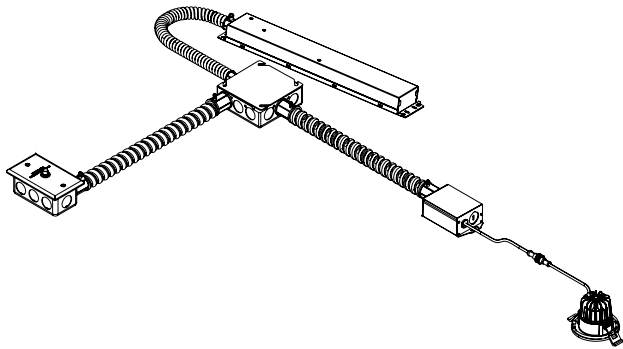
INPUT VOLTAGE	OUTPUT VOLTAGE DURING NORMAL OPERATION	OUTPUT VOLTAGE DURING EM
120VAC	120VAC	120VAC
277VAC	277VAC	120VAC

#### NEPK-23LEDUNV INSTALLATION

- 1 Secure the NEPK-23LEDUNV to a stable, structurally sound surface using the appropriate mounting hardware (Not provided).



- 2 Recommended to use an external Junction box when used with canless luminaires.



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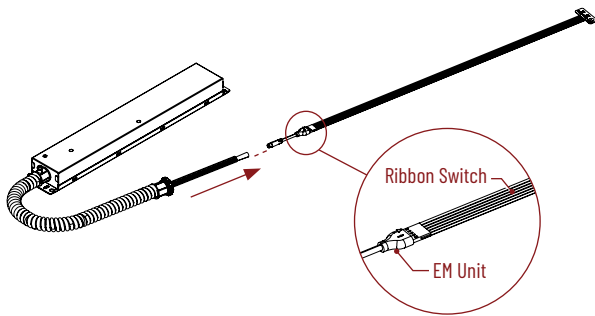
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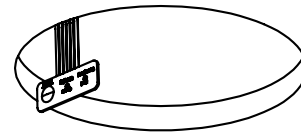
## OPTIONAL ACCESSORY INSTRUCTION

## REQUIRES NEPKA-20/23LEDRTS (ORDERED SEPARATELY)

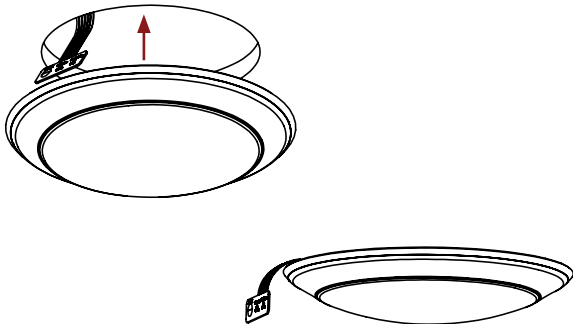
- 1** Connect NEPKA-20/23LEDRTS Ribbon Switch, to the emergency unit.  
**NOTE:** If the switch button are working but the LED indicators aren't lighting up, check the connector's polarity. Make sure the arrows and pins on both connectors are on the same side.



- 2** Pull the NEPKA-20/23LEDRTS through the cut out.



- 3** Install the luminaire as intended with the NEPKA-20/23LEDRTS sticking out of the ceiling cutout.



- 4** Remove the label from the adhesive and place the LED switch indicator onto the luminaire.

