# NEPK-20LEDUNV-JB

Emergency LED Driver Kit with Remote Test Switch
Output Power: 20W

Type
Project
Catalog No.
Notes

## PRODUCT DESCRIPTION

Emergency LED driver kit for use with new or existing LED luminaires. Driver's circuitry automatically switches the luminaire between emergency and normal power operation during power loss and restoration. Operates at a reduced level for a minimum of 90 minutes to allow safe egress during power outage. Upon restoration to normal AC operation, the emergency driver returns to charging mode. Separated feed and luminarie connections. Great for canless applications and drivers with small enclosures.

## ELECTRICAL

**Input Voltage:** 100-347VAC, 50/60Hz
**Output Voltage:** 170VDC
**Input Power:** 12W 0.1A max. (depending on luminaire)
**Output Wattage:** 20W
**Emergency On-Time:** 90 minutes
**Operating Temperature:** 5°-50°C

## OPERATION

When AC power fails, the driver immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.

## BATTERY

High-temperature, maintenance-free Li-ion battery. Requires 24 hours to recharge battery.

## OPTIONAL ACCESSORIES

NEPKA-20LEDFPTS: Replacement Remote Test Switch included with Emergency LED Driver.
NEPKA-20/23LEDRTS: Ribbon Test Switch replaces remote test switch included with Emergency LED Driver.

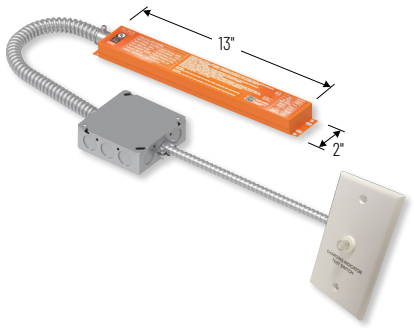
## COMPATIBLE LUMINAIRES

NPTCBSW-22/SCW: 2' x 2' LED Troffer
NPTCBSW-24/SCW: 2' x 4' LED Troffer

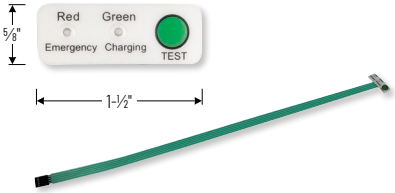
## LABELS AND LISTINGS

- UL 924, Emergency LED Driver
- CSA 22.2 No 141-15
- cULus Listed for damp locations
- 5-Year Limited Warranty
- Certified to the energy efficiency standards of California Title 20
- FCC Compliant

## PRODUCT IMAGES AND DIMENSIONS




**NEPK-20LEDUNV**
20W Emergency LED Driver with Remote Test Switch




**NEPKA-20/23LEDRTS**
Ribbon Test Switch Accessory

## 20W Emergency LED Driver Kit with Remote Test Switch

| Catalog No. |
|---|
| **NEPK-20LEDUNV-JB** = 20W Emergency LED Driver Kit with Remote Test Switch |

## Optional Accessory

| Catalog No. |
|---|
| **NEPKA-20LEDFPTS** = Replacement Remote Test Switch |
| **NEPKA-20/23LEDRTS** = Ribbon Test Switch for Emergency Drivers |

Example: **NEPK-20LEDUNV-JB** = 20W Emergency LED Driver Kit with Remote Test Switch

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## INSTALLING THE EMERGENCY DRIVER

1. Disconnect AC power from the LED luminaire.
2. Mount the emergency LED driver by the mounting tabs using the supplied screws.
3. The emergency driver with cable conduit suitable fo remote mounted from the luminaire. When used in conjunction with an AC driver, this distance is up to half the distance the AC driver manufacturer recommends remote mounting the AC driver from the LED Load.
   Mounting Height: This product meets or exceeds the NFPA minimum light requirements with all loads, down to the smallest rated lamp load, at heights up to 7.17ft (2.2m). Many factors influence emergency illumination levels, such as the lamp load selected, luminaire design and environmental factors therefore end use verification is necessary. For field installations, when the attached luminaire is mounted at heights greater than 7.17ft (2.2m), the level of illumination must be measured in the end application to ensure the requirements of NFPA 101 and local codes.

## TEST SWITCH MODES

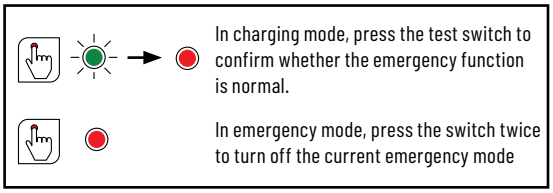

Solid Green = Fully charged


Solid Red = Emergency mode


Flashing Yellow = Error


Flashing Green = EM charging


Flashing Red = EM discharging




## APPLICATION

1. For use with luminaire ≤ 20W, EM dimming wires may be connect or disconnected to the luminaire's 0-10V dimming.
2. For use with luminaire ≤ 80W, EM dimming wires must be connect to the luminaire's 0-10V dimming.

Luminaires ≥ 20W must have 0-10V dimming to operate with EM. Operating luminaires greater than 20W without 0-10V dimming will result in poor performance and void warranty.

| Application | # | Condition (EM rated power = 20W) | Dimming Wires Connected | Calculate Wattage and Lumens at EM mode |
|---|---|---|---|---|
| ≤ 20W | 1 | Luminaire rated power ≤ EM rated power | No | 100% of luminaire lumens |
| | 2 | Luminaire rated power ≤ EM rated power | Yes | 60% of luminaire lumens |
| ≤ 80W | 3 | Luminaire rated power ≥ EM rated power with 0.6 * (Luminaire rated power) ≤ EM rated power | Yes | 60% of luminaire lumens |
| | 4 | Luminaire rated power ≥ EM rated power with 0.6 * (Luminaire rated power) ≥ EM rated power | Yes | (EM rated power / luminaire rated power) * luminaire lumens |

## EXAMPLE

EM mode, calculated wattage, actual wattage and lumens may be slightly different. Calculated wattage is for reference only.

| Application | # | Condition (EM rated power = 20W) | Dimming Wires Connected | Calculate Wattage and Lumens at EM mode |
|---|---|---|---|---|
| ≤ 20W | 1 | Luminaire rated at 15W, 1000lm<br>Luminaire rated power, 15W ≤ EM rated power, 20W | No | 15W x 100% = 15W<br>1000lm x 100% = 1000lm |
| | 2 | Luminaire rated at 15W, 1000lm<br>Luminaire rated power, 15W ≤ EM rated power, 20W | Yes | 15W x 60% = 9W<br>1000lm x 60% = 600lm |
| ≤ 80W | 3 | Luminaire rated at 30W, 1500lm<br>Luminaire rated power, 30W ≥ EM rated power, 20W with 0.6 *<br>(Luminaire rated power, 30W) ≤ EM rated power, 20W | Yes | 30W x 60% = 18W<br>1500lm x 60% = 900lm |
| | 4 | Luminaire rated at 40W, 2000lm<br>Luminaire rated power, 40W ≥ EM rated power, 20W with 0.6 *<br>(Luminaire rated power, 40W) ≥ EM rated power, 20W | Yes | 40W x 60% = 24W<br>20W/40W x 2000lm = 1000lm |

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