DAMAR® Lighting the World

805 N Carnation Drive
Aurora, MO 65605

EMERGENCY DRIVER FOR 1X4 PANELS
36658B/36658D

Specifications

Item	-	36658E
Model	-	EMERGENCY DRIVER FOR PANEL 36658B/36658D
Input Voltage	-	100-277VAC 50/60Hz
Output Voltage	-	15-50 VDC
Input Current	-	80mA
Emergency Power	-	8W max
Recharge Time	-	24 Hours
Discharge Time	-	≥90 minutes
Ambient Operating Temp	-	50°F to 122°F (10°C to 50°C)
Battery Type	-	LiFePO4/6.4V/3200mAh

Note: When installing the emergency driver (36658E) for the 1x4 panels, you must choose the 35K or 5K wiring diagram from the install sheet depending on which CCT you want in emergency mode. For 4K in emergency mode, either diagram can be used. Once installed, choose the corresponding CCT from the switch on the panel to match the chosen CCT for emergency mode.

Dimensions

Length - 17.91" (455mm)
Width - 1.18 " (30mm)
Height - 0.82 " (21mm)

21 (0.82')

30 (1.18')

428 (16.85'')
455 (17.91'')
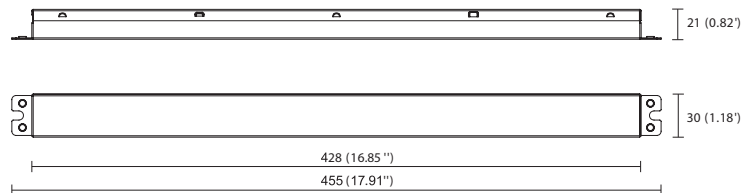
Function

Indicator Light
Red stable: charging mode or charging full.
Red off: main power off or discharging mode.
SELF-TESTING:
Please turn off the main power every 3 months, so as to let the battery operate a charging/discharging cycle. This will help the battery maintain a longer lifespan.
Please check the emergency function with the push test button.
NOTES:
Sealed unit. The battery is not replaceable, Replace the entire unit when necessary.
TEST Switch:
Emergency conversion Kit will go into emergency mode if test switch is pressed when main supply is on, it will go into charging mode if test switch is not pressed.
In emergency mode, press the test switch for 3 seconds to turn off the current emergency state.

!IMPORTANT SAFEGUARDS!	WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTION SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING

Read And Follow All Safety Instruction

1. CAUTION- DO NOT MOUNT NEAR GAS OR ELECTRONIC HEATERS.
2. CAUTION- EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.
3. CAUTION- THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.
4. CAUTION- DO NOT USE THIS EQUIPMENT FOR OTHER THAN ITS INTENDED USE.
5. Use with grounded, UL Listed, damp location rated fixtures and case should be grounded.
6. The equipment is intended for ordinary locations and for permanent installation into one or more Listed luminaires.
7. Not for use in outdoor environments, heated air outlets, or hazardous locations.

FC

3 YEAR LIMITED WARRANTY

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⚡ CAUTION: before installation, make certain the A.C. power is off.

STEP1: INSTALLING THE EMERGENCY LED DRIVER
> Test button and indicator light shall be installed where they can be seen depending on the application.
> Turn off the AC power before installing.
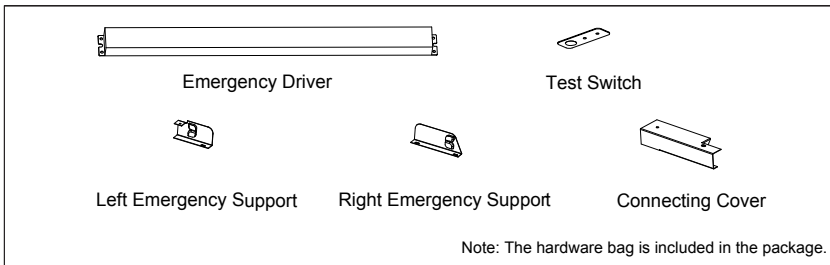
STEP2: WIRING THE EMERGENCY DRIVER
> The EMB and A.C. driver must be on the same branch circuit.
> Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
> Use wire nuts to cover unused wires and make sure all connections are in accordance with the NEC and any local regulations.
> The fixture must be grounded.

STEP3: TESTING
> After wiring is complete, check if the indicator light turns on or not, which will indicate the battery's charging status.

Installation Instruction

> Before installation:
  Take out and check the materials required for installation of emergency power supply.

Emergency Driver	Test Switch
Left Emergency Support	Right Emergency Support	Connecting Cover

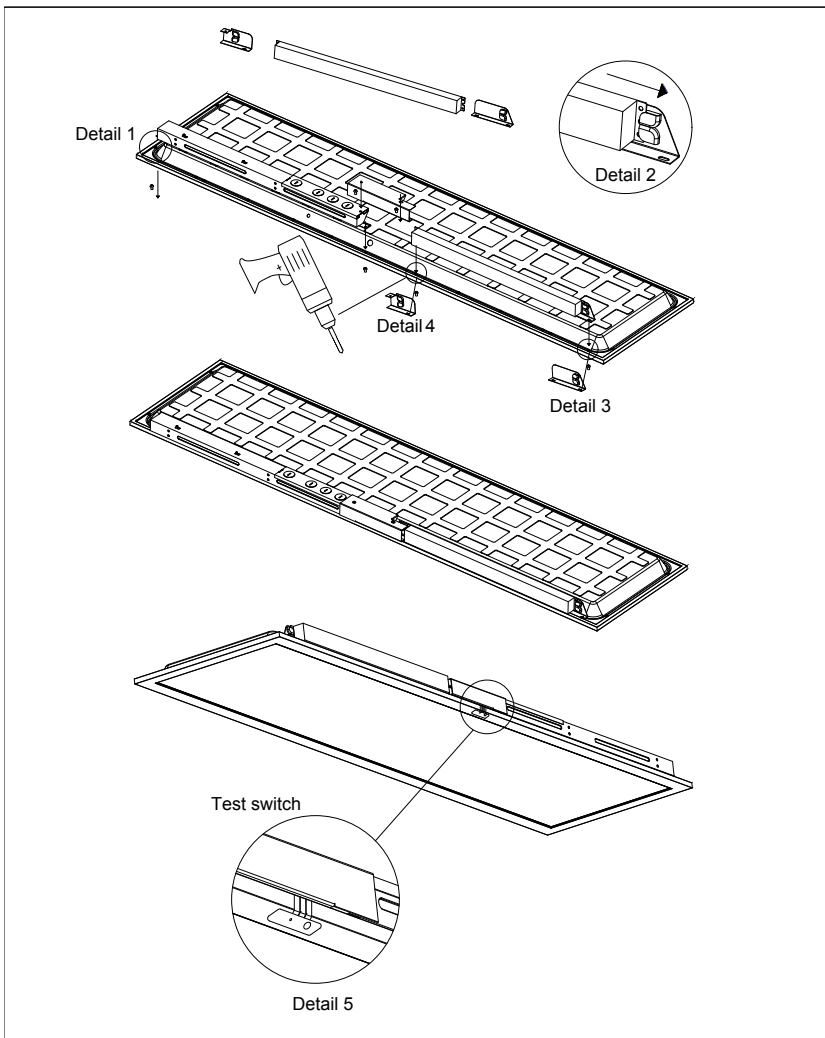Note: The hardware bag is included in the package.

1. Remove the driver box.
2. Remove the male and female plug terminals of the LED driver output wires with a suitable tool.
3. Drill a hole (1/2" diameter) on the side of the driver enclosure according to the picture below, this is for running wires and connections. Make sure there are no sharp edges that might cut the wires. Three pieces of wire 18" long(18AWG) will be needed to extend the existing driver output wires. (black, white, and gray).
   Note: 1/2" drill bit, 1/8" drill bit, and 18AWG wire will be needed for installation.

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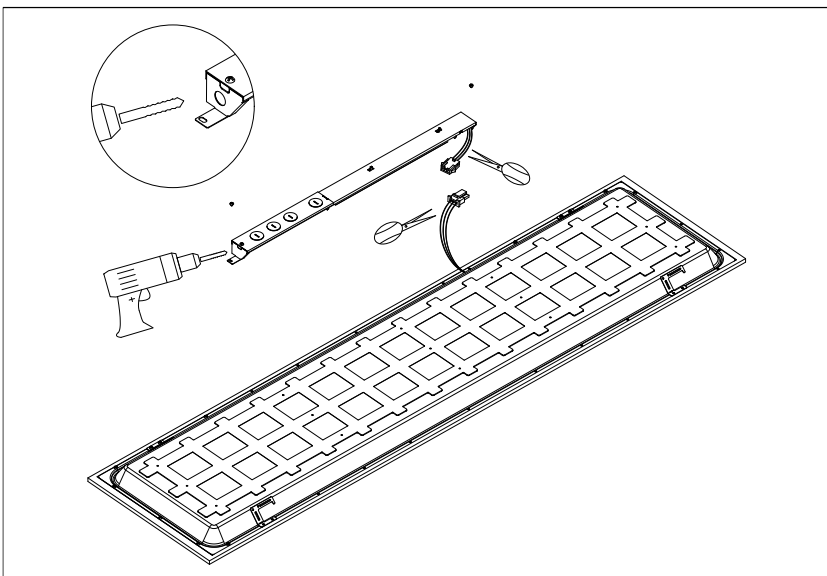
4. Refer to the General Wiring Diagram and wire the connections as shown. Use UL-approved wire connectors as required by code.
5. Remove the 2 grid clips as shown and reinstall the 4 screws previously used to secure the clips.
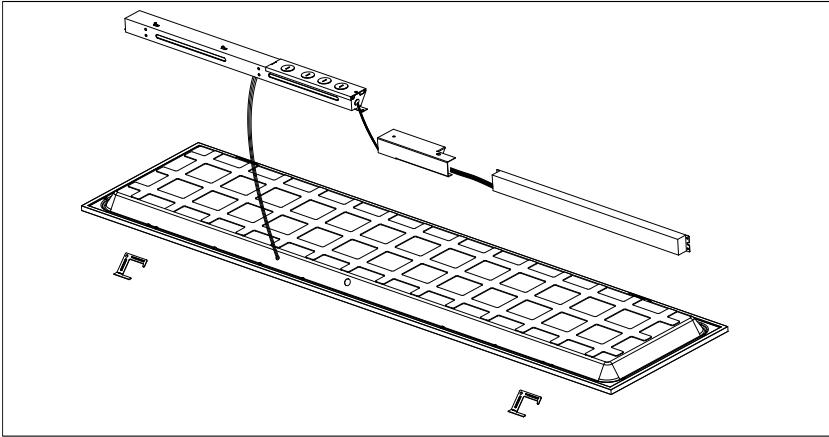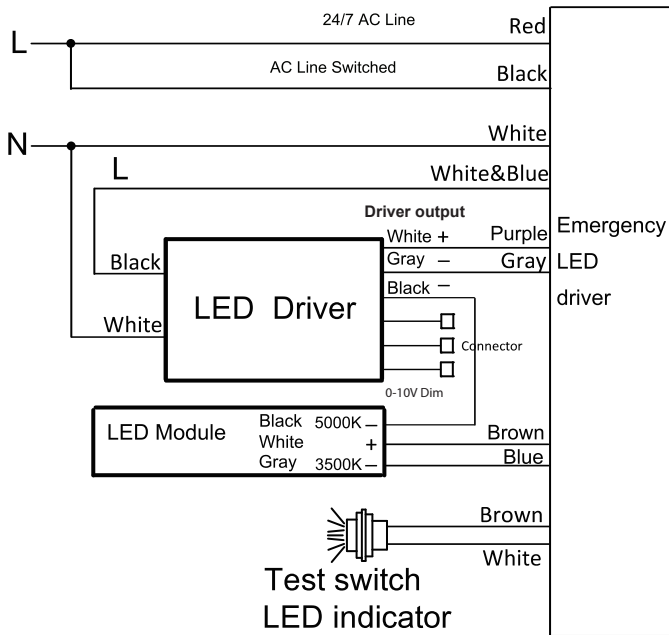
6. Attach the left side of the driver enclosure as shown by removing the screw in that location and attaching the LED driver enclosure using the removed screw. (Detail 1).
7. Attach the right support to the right end of the Emergency driver (Detail 2). Remove the screw in the designated location, (Detail 3) and screw down the right support using that screw. Attach the left side of the Emergency driver to the left support and mark the hole location that needs to be drilled with a 1/8" drill bit (Detail 4). The right support can be removed to allow easier access. Once the hole is drilled attach the left support with one of the included screws, and slide in the left side of the Emergency driver to the left support. The right side support can now be attached and screwed back down.
8. After the wiring connections are made according to the wiring diagram, the test button can be plugged into the connector from the emergency driver. Route the flex cable where it won't be torn and remove the adhesive backing from the test button. It can now be secured to the frame of the panel where it's visible and can be tested after installation (Detail 5).
9. Secure the LED driver cover and screw on the connecting cover. Verify all the wires and connectors are secured and covered.

Detail 1

Detail 2

Detail 4

Detail 3

Test switch

Detail 5

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Wiring Diagram

Emergency CCT:
3500K

Emergency CCT:
5000K