**Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com**
9419 E US HWY 175, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364

# HALP-EMG-24-2L-LED

Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

## INSTALLATION PRECAUTIONS

- Do not install fixture in any classified location where the marked operating temperature exceeds the ignition temperature of the hazardous atmospheres. Consult fixture nameplate for the suitability ambient temperature shown on the nameplate. Refer to fixture nameplate for minimum supply wire temperature rating.
- Verify that the supply voltage agrees with fixture rating as indicated on nameplate. All local and national electrical/building codes must be followed when installing this lighting fixture. For code interpretation, consult your local authority. Product must be used only with glass tubes intact and all cap threads fully engaged. Do not use if glass tubes are cracked or damaged.

**Caution:** Only use lamp size, type and /or wattage as shown on fixture nameplate.

## INSTALLATION

*We strongly recommend that only a licensed electrician install this product.*

**WARNING:** Make sure that the power is disconnected before installing.

***WARNING:*** *Do not let fixture hang on one bracket at any time. Failing to comply can result in breakage of and end casting or mounting bracket allowing the fixture to fall which can cause serious injury or death.*

- The mounting brackets are shipped installed on the fixture.
- Install the brackets to wall or ceiling with two bolts (not supplied) per bracket at center measurements.
- Fixture is now ready for mounting.

It is strongly suggested to use two licensed electricians to proceed with the final mounting of the fixture to avoid any possible personnel injury or damage, and the fixture may be slightly awkward to hold in position and attach to brackets mounted on wall or ceiling. Depending on mounting height and scaffolding, a hydraulic man–lift or two good quality ladders should be used.

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## WIRING

- Remove the upper center screw cap on the re-lamp end (field wiring compartment).
- Install approved cable connector or conduit fitting into ½'' npt hub on field wiring compartment.
- Install a three conductor cable into the connector, allowing 3 inches of wire inside compartment for connection.
- Using approved wire connectors, splice wires as per color codes: black to black (line) white to white (common) and green to green (ground).
- Replace end-cap, making sure there are no wires protruding that maybe pinched causing a possible short circuit.

***WARNING:*** *Fixture must be grounded as required per paragraph 410-21 and article 250 of the National Electric Code and/or rule 30-500. Failure to properly ground this fixture will create and electrical shock, which can cause serious injury or death.*

## EMERGENCY BACKUP BALLAST OPERATION

During normal operation, AC power is supplied to the ballast through the backup micro inverter and the inverter charges the battery. Connecting the inverter wires (red and white) enables the emergency circuit and supplies power to the control/monitor circuit. The backup micro inverter detects AC input voltage (120-277V AC) and automatically set the output voltage during emergency operation.

When AC power fails, the backup micro inverter automatically switches to emergency mode, keeping the load illuminated for a minimum of 90 minutes. When AC power is restored, the backup micro inverter returns to charge mode to recharge the battery. The backup micro inverter consists of a low-battery voltage disconnect which is reset when AC power is restored. The unit can also detect an abnormal load condition (open or shorted load) during emergency mode operation and will protect the inverter from damage.

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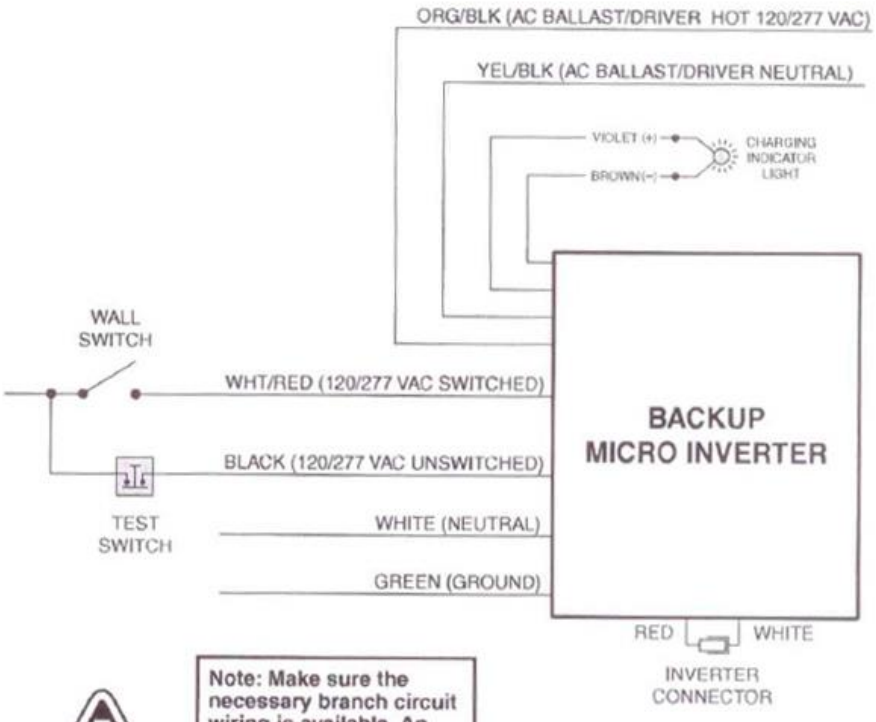
# INSTRUCTIONS FOR WIRING BALLAST

**Note: Wire AC electronic ballast according to manufacturers installation instructions.**




**Note: Make sure the necessary branch circuit wiring is available. An unswitched source of power is required. The unswitched and switched power sources must be fed from the same branch circuit.**