SOLAIS®

Emergency Backup

INSTALLATION INSTRUCTIONS

IMPORTANT: Read **ALL** instructions before starting installation. Save instructions for later use.
CAUTION: To reduce risk of shock, **TURN OFF ELECTRICAL SUPPLY** before installing/servicing track.
WARNING: Must be installed with its intended use and in accordance of National Electrical Code (NEC) and/or any local codes. *Failure to do so may result in serious injury and/or damage.*

RECOMMENDED TOOLS

Phillips Screw Driver

Wire Nuts

Wire Cutter/ Stripper

SAFETY INSTRUCTIONS

- **IMPORTANT**: It is recommended to charge the battery every 6 months to prevent over-discharge
- Electrical rating is 100-347V. Installer must confirm that there is 100-347V to the fixture before installation.
- Sealed unit - Components are not replaceable. Replace the entire LED Emergency Backup unit when necessary.
- Suitable for damp and dry locations where ambient temperature is 5°C to +50°C. Do not use outdoors.

- **IMPORTANT:** Indicator (LED light) illuminated indicates battery in charge mode when AC power is applied. It is recommended and required by applicable code to test emergency function to ensure proper operation of the system; push the test switch for 30 seconds every 30 days to ensure the emergency driver is functioning as LED light source illuminated. Conduct a 90 minute discharge test once per year; LED light source should be illuminated for a minimum of 90 minutes.
- **TESTING SYSTEM:** Requires a minimum charge of 1 hour before testing the circuit. A full charge requires 24 hours.

OPERATION + INDICATOR LIGHT

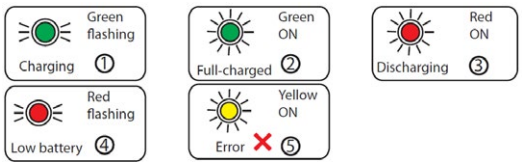
- **AC OPERATION:** AC power is present. The AC driver operates the LED load as designed. The emergency driver is charging in a standby mode. The charging indicator will be lit, showing that the battery is charging.

- **EMERGENCY OPERATION:** When AC power goes out, the emergency driver detects the outage and will automatically switch to the working emergency mode.
  - The red LED light on indicates that it is discharging,
  - The red LED flashing indicates low battery power.
  - The red LED light off indicates that the discharge is complete.

  When power is restored, the emergency driver backs to AC power working and starts recharging.

- **MALFUNCTION OPERATION:** When the yellow LED on, the emergency LED driver is in fault.

① Green/Flashing: Charging
② Green/ON: Full-charged
③ Red/ON: Discharging(emergency mode)
④ Red/Flashing: Low battery
⑤ Yellow: Error



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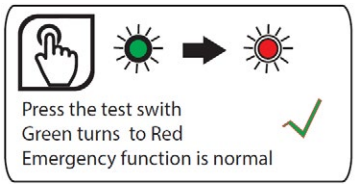
TEST SWITCH + MAINTENANCE

① Press the test swith to confirm whether emergency function is normal
② During Emergency Mode, Press test switch twice to cut off the emergency output and enter Shipping Mode



- Press the test button to cut the power to the AC driver and switch the system to emergency mode.
- Release the test button to return to normal mode. Switch off the circuit breaker to simulate a full power outage.

- Allow the unit to charge 1 hour, then conduct a short discharge test.
- Allow a 24 hour charge before conducting a one hour test.

Periodic tests are recommended to ensure the system is functioning normally:

- MONTHLY
  - Visually inspect the test switch. It should be illuminated when AC power is applied.
  - Conduct a 30 second discharge test by depressing the test button or by switching off the main power.
- **ANNUALLY**
  - Conduct a 90 minute discharge test. The unit should operate as intended for the duration of the test.

SELF-DIAGNOSTIC

The integrated Self- Diagnostic circuitry will automatically conduct a monthly 30 second and an annually 90 minute tests to verify proper emergency capability:

- Monthly self test is executed 30 seconds self-discharge test every 30 days.
  The system will transfer from normal lighting to emergency mode, and the reverse.
- Annual self test is executed 90 minutes self-discharge test every 365 days.
  The system will transfer from normal lighting to emergency mode, and the reverse.

Written records of the testing should be kept by the owner for inspections as necessary

INSTALLATION + WIRING

Input Voltage:	100-347Vac, 50/60Hz
Input Current:	≤ 100mA
Input Power:	12W Max.
Output Voltage:	≤ 170V DC
Input Current:	≤ 100mA

Output Power:	8W / 15W / 20W / 25W
Ambient Temperature:	5°C ~ 50°C (30°F ~ 122°F)
Application:	(1) ≤ 100W (0-10V dimming luminaire)
	(2) ≤ output power (non-dimming luminaire)
Max. Mounting Height:	EMI-8W - 15.5ft
	EMI-25W - 27.2ft

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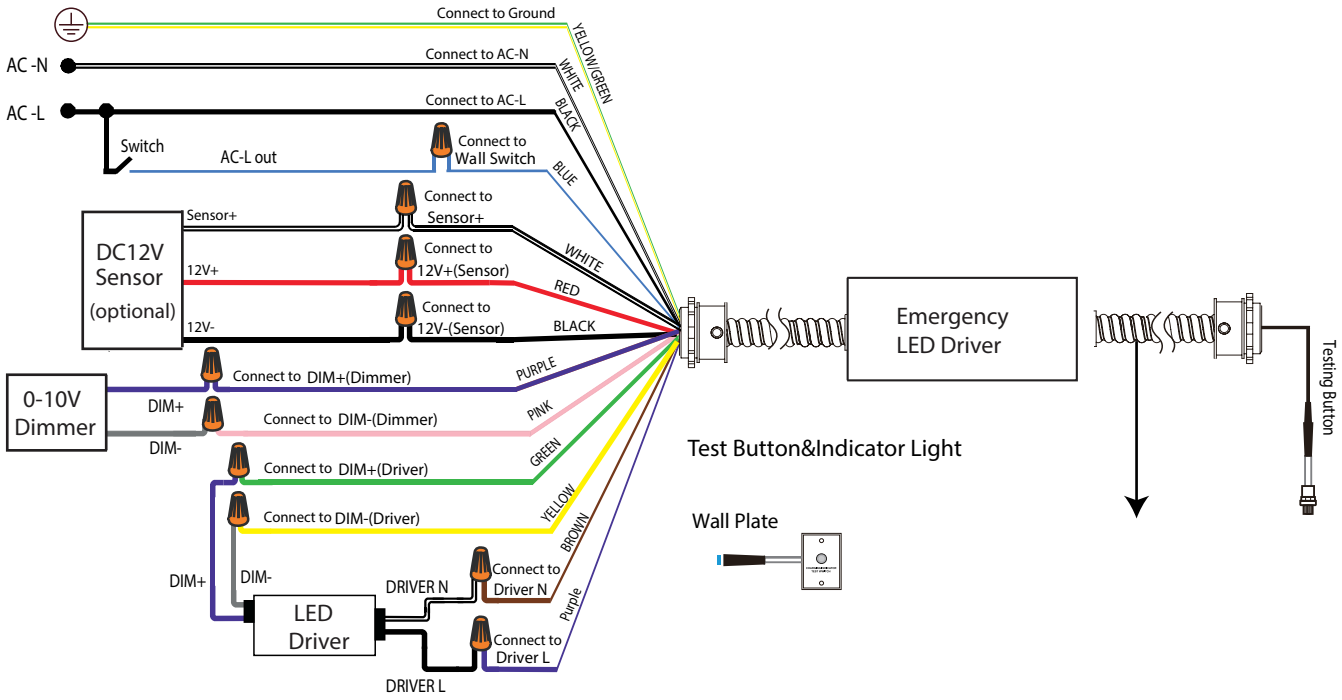
INSTALLATION + WIRING

0-10V driver WITH 0-10V dimming installation

*LED DRIVER INPUT POWER NOT GREATER THAN 100W
Emergency Inverter Dim+ (Green) , Driver Dim- (Yellow) has to connect with LED driver DIM+ and DIM



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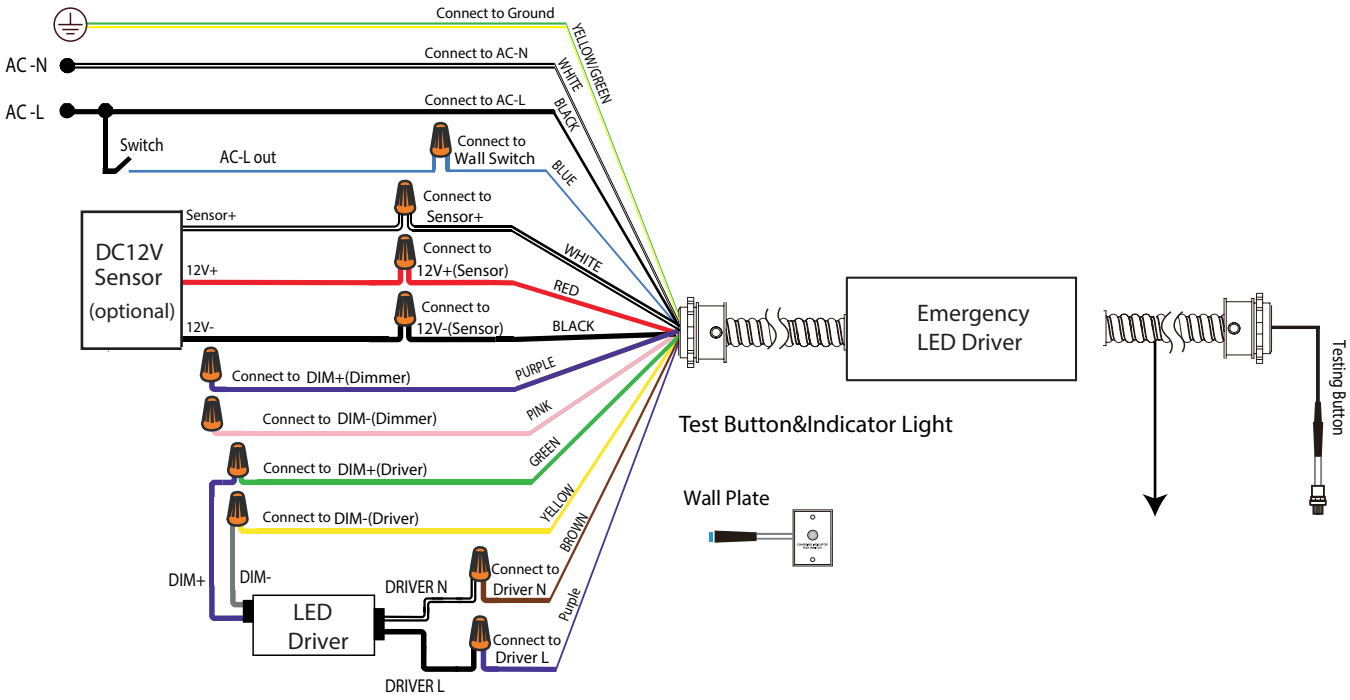

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INSTALLATION + WIRING

Non-dimming installation

*LED DRIVER INPUT POWER NOT GREATER THAN EMERGENCY OUTPUT POWER)