

EMAXXFY-ZZZ

Self- Diagnostic LED Emergency Driver

INSTALLATION MANUAL

!!! IMPORTANT SAFEGUARDS !!!

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

READ AND FOLLOW ALL SAFETY INSTRUCTION

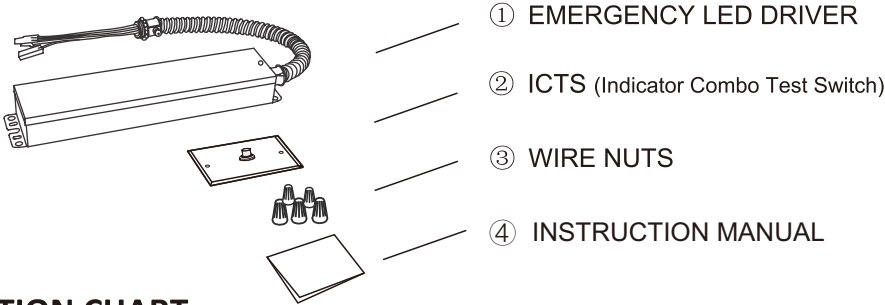
- 1. **CAUTION**– This **EMAXXFY** provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency source by turning off the A.C. branch circuit.
- 2. **CAUTION**– Servicing of this equipment should be performed by qualified personnel only.
- 3. **CAUTION**– Do not attempt to service the battery. A sealed, no-maintenance battery is used that is not field replaceable. Replace the entire unit when necessary.
- 4. **CAUTION**– The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition, void warranty, and result in non-compliance with UL specifications.
- 5. **CAUTION**– The **EMAXXFY** requires an un-switched AC power source of **100–347VAC**,50 /60Hz. Installer must confirm that fixtures input voltage covered 120VAC before installation.It will supplypower under an output voltageof 170VDC in emergency mode for at least 90 minutes.
- 6. **CAUTION**– Battery pack should be charge for 24 hours every 6 months during storage.
- 7. Battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect.
- 8. For use in 0°C minimum, 50°C maximum ambient temperatures. Suitable for use in damp locations and plenum spaces.
- 9. Flexible mental conduit is optional, depend on installation environment.
- 10. The **EMAXFY** should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- 11. Do not use this equipment for anything other than its intended use. Equipment only use for LED Lighting emergency backup.
- 12. Do not mount near gas or electric heaters. Do not let power supply cords touch hot surfaces.
- 13. Do not make or leave any other open holes in the wiring enclosure or electrical component enclosure during installation.
- 14. This fixture is for use with grounded, UL Listed, damp location rated, indoor fixture. Not for use in heated air outlets or hazardous locations.
- 15. Do not use outdoor.

LUMEN OUTPUT DURING EMERGENCY OPERATION


The luminaire rated data and maximum mounting height can be found as follows:

- 1. Determine the fixture efficacy under normal AC operation, based on fixture manufacturer published data in lumens per watt (LM/W).
- 2. Reference DLC QPL (www.designlights.org) and Energy Star QPL (www.energystar.gov) for rated data on fixture efficacy. If fixture is not found on DLC or Energy Star Qualified Product List , contact fixture manufacturer.
- 3. Multiply *fixture LM/W* by *rated output power of emergency pack* Example 'model EMA15FY-170' is 15 *W* × 100 *LM/W* = 1500 *Lumens*

PRODUCT COMPONENTS



EMAXXFY SERIES SPECIFICATION CHART

Models	Output Power	Output Voltage
EMA15FY-170	15 Watts (Constant)	 HIGH VOLTAGE OUTPUT 170V DC
EMA25FY-170	25 Watts (Constant)	
EMA40FY-170	40 Watts (Constant)	

CAUTION —See the **EMAXXFY Model Specification Chart** for output specifications of the unit being installed.
For unit of EMA15FY-170 better for LED lamp less than 80W.
For unit of EMA25FY-170 better for LED lamp less than 150W.
For unit of EMA40FY-170 for LED lamp less than 320W.

SELF-DIAGNOSTIC (MAINTENANCE)

The integrated Self- Diagnostic circuitry will automatically conduct 1 monthly 30-second and annual 90-minute tests to verify proper emergency capability per Life Safety Code requirements. NFPA 101, Life Safety Code Outlines the following schedule:

- **Monthly**- During AC mode, the system conducts a (30)seconds self-discharge test of the emergency led driver every 30 days. And automatically restore to normal charging after (30)seconds dis-charged.
- **Annually**- During AC mode, the system conducts a (90)minutes self-discharge test of the emergency led driver every 365 days. And automatically restore to normal charging after fully dis-charged.
- **“Written Records of the Testing should be kept by the owner for inspection by the authority having jurisdiction.”** If the charging indicator is flashing rapidly or off, contact manufacturer.

SAVE THESE INSTRUCTIONS



THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY TO PREVENT FIRE.

WIRING DIAGRAM

CAUTION

Risk of Electric Shock

Note: The LED fixture must integrated with 0-10Vdriver, when LED fixture power more than Emergency backup unit power .

FIG A. normal solution

NOTE: FOR LED FIXTURE POWER ≤ EMERGENCY LED DRIVER

USE WIRE NUTS TO COVER UNUSED WIRES

FIG B. with dimmer

FIG C. with DC sensor

FIG D. with AC sensor

Caution: Before Installation, Make Certain The A.C. Power is Off !

STEP 1: INSTALLING THE EMERGENCY LED DRIVER

- > Turn off the AC power before installing.
- > Indicator light and test switch should be mounted where can be seen by the maintenance personnel.
- > The voltage input to the dimmable wires (DIM+ , DIM-) of emergency LED driver must less than 20Vdc.
- > Determine appropriate location for EMAXXFY in the fixture or using existing mounting holes in the fixture. The installation instruction of LED luminaire may provide guidance on mounting location.

STEP 2: WIRING THE EMERGENCY DRIVER

- > Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
- > Using wire nuts to cover unused wires and make sure all connections are in accordance with the NEC and any local regulations.

STEP3: TESTING

- > After wiring is complete, check if the indicator light lights or not , which will indicate the battery's charging situation.
- > **The battery in this unit may not be fully charged.** A short-term discharge test may be conducted after the EMAXXFY has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

OPERATION (INDICATOR STATUS)			
Mode	Test Switch Operation	Indicator Status	Comment & Solutions
AC MODE (1)	NO Pressed	ON(no flashing)	Battery is charging
AC MODE (2)	Pressed once	2s ON and 2s OFF (slow flashing)	Battery is conducting a 30s short-term emergency test
AC MODE (3)	Pressed twice (2s) in sequence	2s ON and 2s OFF (slow flashing)	Battery is conducting a long-term emergency test until battery is fully discharged
EMERGENCY MODE (1)	NO Pressed	2s ON and 2s OFF (slow flashing)	Battery is automatically conducting a emergency until battery is fully discharged
EMERGENCY MODE (2)	Pressed once	OFF	Battery is turned off
PROBLEM	When indicator flashes (0.2s) ON and (0.2s) OFF fast or goes off, the emergency backup pack is abnormal. Contact the manufacturer.		
<div><div><div>WARNING</div><div>Risk of Electric Shock</div></div><div>Note: .Please pressed test switch of the EMAXXFY (in once) and make certain the battery is turned off, before installation, maintenance, storage or shipping.</div></div>			