

LED emergency driver



UL
E483815

Product description

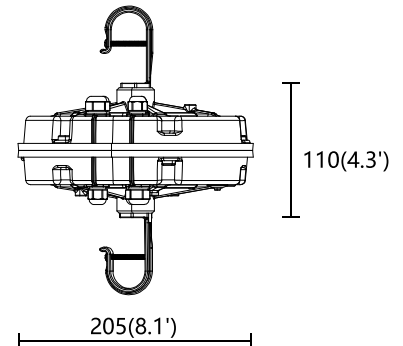
- Suit for 30W to 300W lamp with 0-10V dimming industrial lights.
- Used with LiFePO4 battery.
- 150-200VDC output.
- LED emergency converter that can transfer standard LED fitting into emergency LED fitting.
- Accessary test switch and charge indicator.

Applications

- UL Listed for wet locations.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- Output DC150-200V.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Ambient range t_a 10...60°C.
- IP65 protection.
- Not intended for use in luminaries for high-risk task area lighting.

Dimensions

L205×W205×H110 mm
L 8.1'× W 8.1'× H 4.3'



Ordering data

Model No.:	Input voltage	Output voltage/power (Emergency mode)	Battery pack	Duration (E.M mode)
YH27F-40WL	100-347Vac 50-60Hz	DC150-200V,40W max	LiFePO4 12.8V6.6Ah	90minutes
YH27FA-40WL	100-277Vac 50-60Hz	DC150-200V,40W max	LiFePO4 12.8V6.6Ah	90minutes



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Technical data

Item	Data
Rated input voltage	100-347VAC or 100-277VAC, 50-60Hz
Input current	150mA
Input power	8.5W max
Power factor	0.6 @100VAC, 0.5@347VAC
Output wire L-out N-out (LED load input)	AC 6A Max
Output voltage range	DC150-200V
Max output voltage	250V
Battery pack voltage/capacity	LiFePO4 12.8V 6600mAh, 84.48Wh
Recharge current	0-500mA
Recharge time	24hours
Discharge time	90 minutes
Max. casing temperature tc	69.1°C

Protections

- Input over current protection.
- Output over voltage protection.
- Output under current protection.
- Output short circuit protection (Emergency mode).



Remote control

- If you press TEST button once, the system will go into discharging mode for 5 seconds , then it goes back to charging mode.
- If you press H-T (Hold test button), the system goes into discharging mode and keeps discharging ; then you press it again , the system will stop discharging and go back to working mode.
- The Max remote control distance is 15 M.



Test switch

- Emergency conversion Kit will go into emergency mode if test switch is pressed when main supply is on, while 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.

LED indicator

- Red stable:charging mode or charging full.
- Red off:main power off or discharging mode.
- Red flash:0.5 second fast flash-represents failure.
2 second slow flash-represents low battery voltage and needs recharging.

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Self-test mode

- After connecting the AC wires and turn on the main power, the emergency driver will be in self-test mode for 3 seconds.

When it is in the processing of self-test :

- 1) The indicator in red will flash every 2 seconds ;
- 2) It goes into charging mode , If suddenly the main power is cut off, the emergency driver may stop working.

- If the self-test is not passed, then it goes into failure mode.

The indicator in red will flash in every half second, The main reasons are as below:

- 1) The battery pack is not wired or connection or it is broken.
- 2) The load is not connected or in short. Or the dimming signal wires are not connected properly.

- If the emergency driver pass the self test and it will go into working mode:

The indicator keeps red.

It is in the charging mode and it passed the self-test , and all functions are working well.

- Remark:

If the battery voltage is lower than 30% rated voltage, the indicator will flash in every 2 seconds.

Once the battery capacity or voltage goes above the 30% of the rate capacity, and it will goes into self-mode again.

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

WARNING:

AC power must be off before proceeding with assembly or installation of emergency driver.

CAUTION: DO NOT MOUNT NEAR GAS OR ELECTRONIC HEATERS.

CAUTION: EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.

CAUTION: THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.

CAUTION: DO NOT USE THIS EQUIPMENT FOR OTHER THAN ITS INTENDED USE.

CAUTION: Use with grounded, UL Listed, damp location rated fixtures and case should be grounding.

CAUTION: The equipment is intended for ordinary locations and for permanent installation into one or more listed emergency luminaires.

IMPORTANT: Please charge the battery consistently for >24 hours for the first time usage so as to activate the whole battery cells of discharging/charging duration.

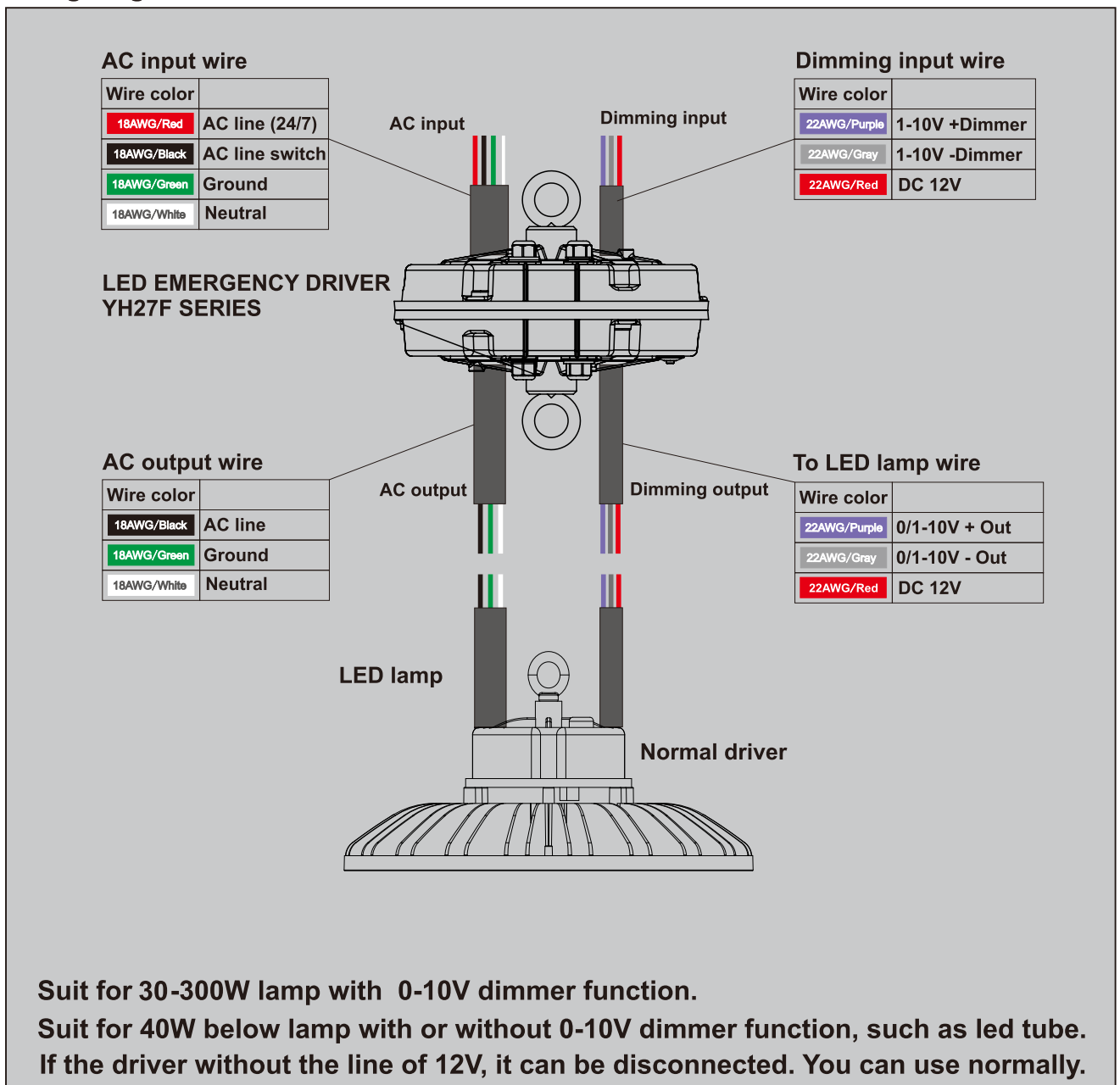
IMPORTANT: The products are produced with built-in batteries, which could be stocked for one year at most without being used. If clients keep them for more than one year , the batteries may be damaged. This is not covered in the warranty.

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Installation instruction:

- It is only used for 1-10V dimmable <300W lighting fixtures.
- Please check and confirm all the data and usage surrounding before installation.
- Damp or wet location installation is OK.
- Please keep it away from the flammable materials with a place of good heat dissipation.
- Please charge the battery consistently for >24 hours for the first time usage so as to activate the whole battery cells of discharging/charging duration.

Wiring diagram



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Maintenance:

- Please turn off the main power every 3 months, so as to let the battery operate a charging/discharging circle. This will help make battery sustain a longer lifetime.
- Please check the emergency function with the push test button.
- Battery capacity is >60% when factory deliver goods, so it could be consistently stocked for Max 12 months.

Notes:

Users are not suggested replacing the batteries by themselves. If needed, please use the nominated batteries pack by the manufacturer and contact with us for the instructions of maintenance.

Warranty

- Warranty 5 years.
- Except for the following circumstances:
 - 1) Improper installation or operation.
 - 2) Misuse.
 - 3) Abuse.
 - 4) Unauthorized or improper repair alteration.
 - 5) Accident or negligence in use, storage, transportation.
 - 6) Any natural acts.

