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108-600 EM3H PNL 2.5W 20-55V

Installation can only be performed by an authorized electrician; Switch off the electricity supply before carrying out any work;

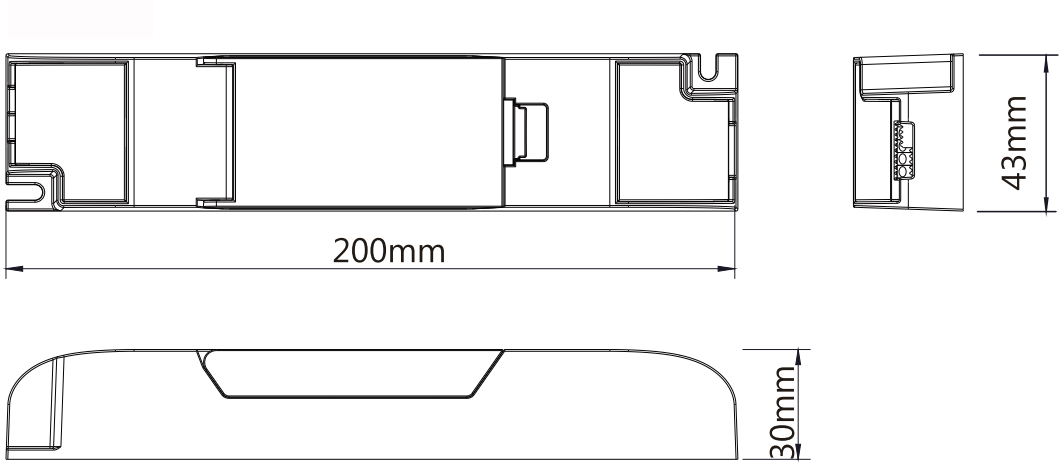
Applications

- Use in dry environment.
- LiFePO4 battery pack.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- LED fitting would be maintained emergency LED fitting if standard (main powered) driver, emergency lighting kit and battery are all retained in the circuit. LED fitting would be non-maintained emergency LED fitting if only emergency lighting kit and battery are retained in the circuit.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Ambient range ta 0....50℃
- IP20 protection, relies on end-product enclosure for protection against accidental contact live parts.
- Not intended for use in luminaries for high-risk task area lighting.
- Can close self test mode by dial switch.

Technical Data

Rated input voltage	220-240VAC,50/60Hz
Input current	30mA
Intput power	5W
Terminal L-in / L-out (LED driver input constant)	AC 2A Max
Output voltage range	DC20...55V, Uout< 60V, SELV
Max output current	130mA
Output power	2.5W max
Battery cells voltage/capacity	LiFePO4 3.2V 3200mAh,10.24Wh
Recharge current	250mA
Recharge time	24hours
Discharge time	180 minutes
Max. casing temperature tc	70℃

Dimensions



Battery Technical Data

Battery case temperature	0℃ to +60℃
Battery voltage	3.2V per cell
Capacity	3200mAh
Battery type	LiFePO4 3.2V 3.2Ah

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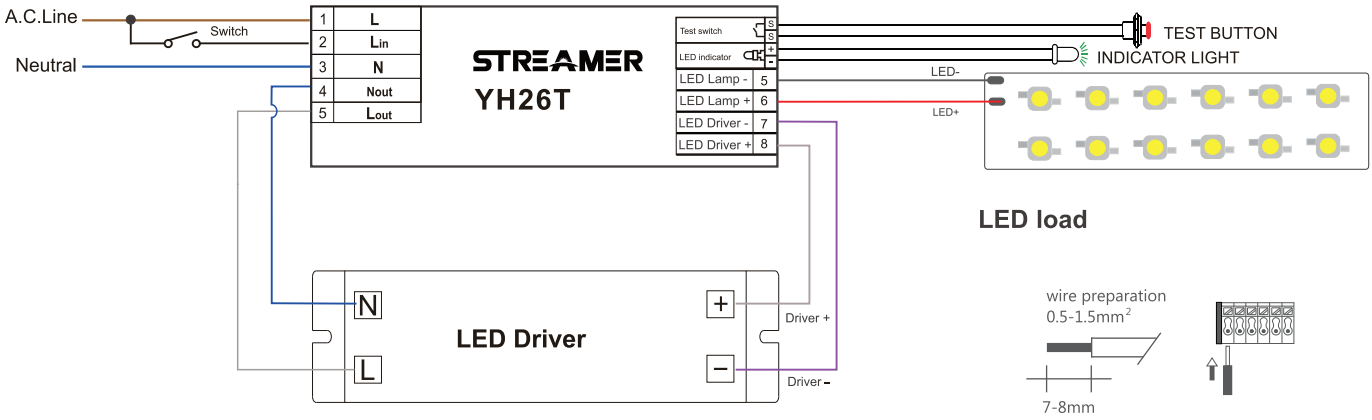
Wiring Diagram



Self-test

The emergency kits carry out self-tests automatically to ensure its functionality.
The self-test includes 3 types of tests:

Initial test

-As soon as mains supply is connected, the emergency kit will carry out a 3-seconds functional test automatically.
- In case of a failure, the LED will turn permanent red. Otherwise, the charge mode will start.

Functional test

- Refers to charging, discharging and the functioning of load.
- Carry out for 10 seconds automatically every 30 calendar days.

Duration test

- Refers to the test of batteries capacity.
- Carry out every 180 calendar days.

Rest mode

Rest mode can be initiated during emergency mode by pressing test switch longer than 3 seconds.
The rest mode will be exited automatically after reconnect AC mains.

Please note

If mains supply is off during self-test period, emergency conversion module would terminate self-test immediately and go into emergency mode.

Self-test is under the regulation of EN 62034.

Explanation of LED indicator

	Color	LED indication	Status	Comment
	Green	Slow flashing green (3 sec on, 1 sec off)	Charging Mode	AC mode
	Green	Permanent green	Fully Charged	AC mode
	Green	Fast flashing green (0.1 sec on, 0.1 sec off)	Function test underway	
	Green	Slow flashing green (1 sec on, 1 sec off)	Duration test underway	
	Red	Permanent red	Load failure	Open circuit/ Short circuit Led failure (emergency mode)
	Red	Slow flashing red (1 sec on, 1 sec off)	Battery failure	Battery failed the duration test or function test / No battery
		Green and red off	DC mode	Battery operation (emergency mode)

Test switch

The test button is a open switch , if you press it, it connects, and then you release it, it cuts off automatically.
When you are doing the daily maintenance , if you press the test button, the emergency driver goes into emergency mode, if you release the button, the emergency driver will go back to normal mode.