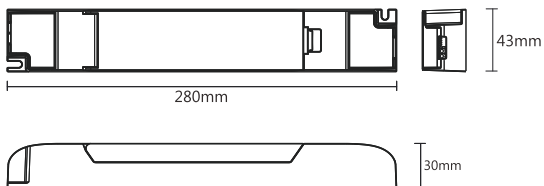


LED Emergency converter and battery YH26T-05WL-55-DA



Dimension



Relevant standard

IEC 61347-1:2015+A1:2021
IEC 61347-2-7:2012+A1:2019+A2:2022
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
EN 62493
DALI standard EN
62386-202, according to EN 60598-2-22, according to EN 50172

Product description

- Emergency lighting LED driver with DALI interface and automatic test function
- LED emergency converter that can transfer standard LED fitting into emergency LED fitting.
- Used with Lithium iron phosphate battery.
- Suits for LED fitting with external led driver.
- Accessory: test switch and charge indicator.

Applications

- Use in damp and dry environment.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- LED fitting would be maintained emergency fitting if standard (main powered) driver, emergency lighting kit and battery are all retained in the circuit. LED fitting would be non-maintained emergency fitting if only emergency conversion module and battery are retained in the circuit.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Connector between emergency kit and battery has the function of polarity reversal protection.
- Ambient range t_a 0...50°C
- IP20 protection, relies on end-product enclosure for protection against accidental contact live parts.
- Not intended for use in luminaires for high-risk task area lighting.
- Full warranty 5 years.

Ordering data

Model	Output voltage	Output emergency power *Constant power	Duration
YH26T-05WL-55-DA	DC 8-55V	DC 4W	3 Hours

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Naming rules

Emergency power kit	Nomenclature
	<u>YH26T</u> - <u>05WL</u> - <u>55</u> - <u>DA</u>
	1 2 3 4
1. Basic series	YH26T
2. Output emergency power	05WL: 5W
3. Output voltage (Emergency mode)	50: DC8-50V
4. Interface	DA: Dalli-2

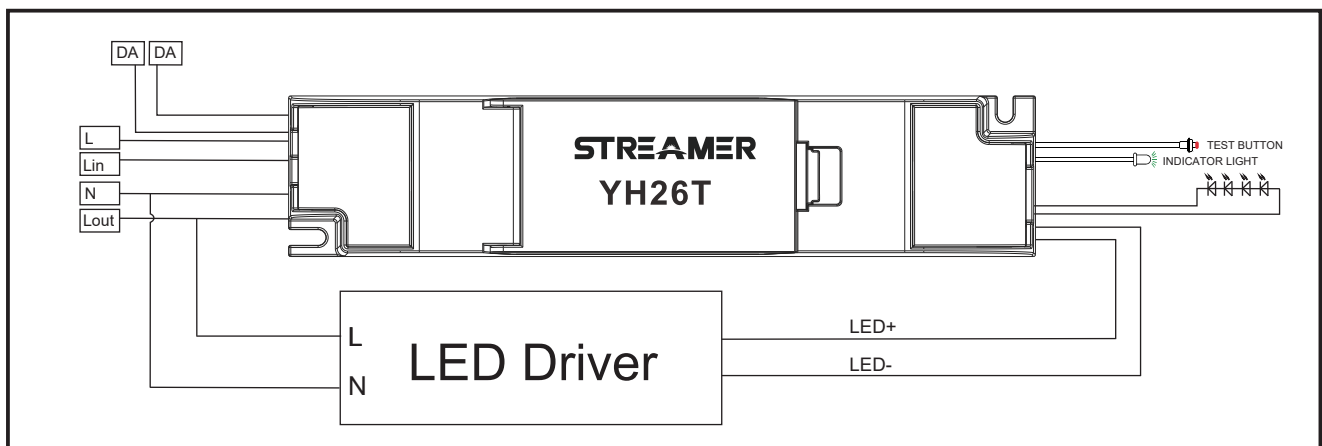
Technical data

- Input rated voltage: 220-240VAC, 50-60Hz
- AC input current: Actual external driver definition
- AC Input power: Actual external driver definition
- Power factor: >0.5
- Charge time : 24 hours
- Charge mode: trickle re-charging on battery
- Output emergency power: 4.5W, Constant power output
- Output voltage DC8...55V(SELV) 64V max
- Battery capacity (LiFePO4) 6.4V,3200mAh
- Battery Charging Current: 0-200mA
- Max. casing temperature tc 85°C
- Reinforced insulation between mains supply and the battery circuit
- This unit can recharge the battery normally after reconnecting of battery

Install

- It should be built in lighting fixture.
- Only professional people (e.g. electrical Engineer) can wire it.
- Please confirm that the electrical parameters of this product match with the luminaire.
- Please check the wiring method carefully before installation.
- Please power off mains supply before installation, and confirm the wiring is correct, then connect the battery, the last step is to turn on mains supply.

Wiring diagram(Maintained)



LED Emergency converter and battery YH26T-05WL-55-DA

SelfTest

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 EN62034.

Explanation of LED indicator

	Color	LED indication	Status	Comment
	Green	Permanent green	Charging Mode 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
	Red	Fast flashing red (0.1 sec on, 0.1 sec off)	Low battery	

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.

LED indicator

It can reflect charging or not charging. LED charging monitor will be light if battery is connected while it will be off without battery connecting.

