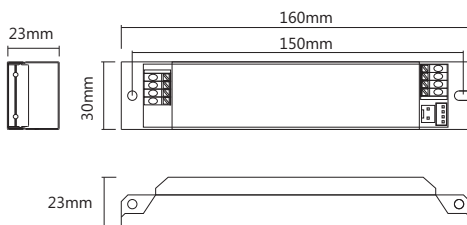


LED Emergency converter and battery YH11-CP manual test series



Dimensions



Relevant standard

IEC 61347-1
IEC 61347-2-7
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3

Product description

- LED Emergency converter that can transfer standard LED fitting into emergency LED fitting.
- Used with LiFePO4 battery
- Suits for LED fitting with external LED driver
- Accessory test switch and charge indicator

Applications

- Use in 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 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.
- Connector between emergency kit and battery has the function of polarity reversal protection.
- Ambient range t_a 0...65°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.

Technical Information

Type	Rated input	Rated output	Battery	Duration time
YH11-6011050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,6W cp, 60V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	1hour
YH11-601H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,6W cp, 350V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	1hour
YH11-3021050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,3W cp, 60V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	2hours
YH11-302H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,3W cp, 350V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	2hours
YH11-4151050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,4W cp, 60V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	1.5hours
YH11-415H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,4W cp, 350V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	1.5hours
YH11-2031050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,2W cp, 60V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	3hours
YH11-203H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,2W cp, 350V max	YHBL-2-1.6B/Z 6.4V 1.6Ah	3hours
YH11-3031050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,3W cp, 60V max	YHBL-2-2.2 6.4V 2.2Ah	3hours
YH11-303H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,3W cp,350V max	YHBL-2-2.2 6.4V 2.2Ah	3hours
YH11-4031050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,4W cp, 60V max	YHBL-2-3.2 6.4V 3.2Ah	3hours
YH11-403H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,4W cp, 60V max	YHBL-2-3.2 6.4V 3.2Ah	3hours
YH11-5031050Li	220-240V~, 50/60Hz, 3.5W max	DC10-55V,5W cp, 60V max	YHBL-2-3.6 6.4V 3.6Ah	3hours
YH11-503H300Li	220-240V~, 50/60Hz, 3.5W max	DC50-300V,6W cp, 350V max	YHBL-2-3.6 6.4V 3.6Ah	3hours

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Naming rules

Emergency power kit	Nomenclature
	$\begin{array}{ccccccc} \text{YH11} & - & \text{2} & \text{03} & \text{1050} & \text{Li} & \\ \hline & & 1 & 2 & 3 & 4 & 5 \end{array}$
1. Basic series	YH11-CP
2. Power(Emergency mode)	2: 2W ; 3: 3W; 4: 4W; 5: 5W
3. Duration	03: 180minutes
4. Output voltage (Emergency mode)	1050: 10V to 55V H300: 50V to 300V
5. Battery	Li: LiFePO4 Battery

Technical data

- Input rated voltage: 220-240V~,50/60Hz 3.5W max
- AC input current: 50mA max
- Power factor: >0.5
- Charge time : 24 hours
- Charge mode: trickle re-charging on battery.
- Output emergency power 2-5 wattage DC10...55V, DC50-300V, Constant power output.
- Output voltage DC10...55V(SELV), DC50-300V 350V max
- Battery capacity (LiFePO4) 1600mAh, 2200mAh, 3200mAh, 3600mAh
- Battery Charging Current: 0-350mA
- 3 hours rated duration
- Max. casing temperature tc 80°C
- Lumen Factor: 140lm/Wattage
- Reinforced insulation between mains supply and the battery circuit.
- This unit can recharge the battery normally after reconnecting of battery.

Battery

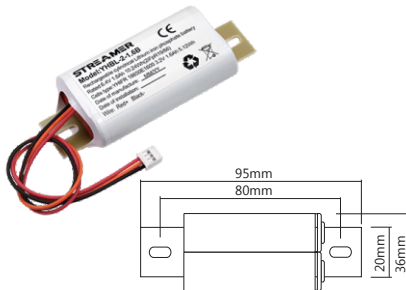
Battery type	Battery model
LiFePO4 6.4V 1.6Ah	YHBL-2-1.6B
	YHBL-2-1.6Z
LiFePO4 6.4V 2.2Ah	YHBL-2-2.2
LiFePO4 6.4V 3.2Ah	YHBL-2-3.2
LiFePO4 6.4V 3.6Ah	YHBL-2-3.6

*YH11 series are all available with LiFePO4 batteries
If you need more details of spec, please go to www.szstreamer.com for downloading .

Battery Declaration

- Batteries' lifetime is 6 years. If you are using or stocking the batteries for 5 years, please replace the batteries.
- Battery pack have temperature control.
The battery charge won't start if the cell temperature is below Tcmin or above Tcmax.
- The batteries can not be charged for 5000 hours consistently.
It should be discharged for once at least, during the 5000 hours charging time.

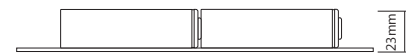
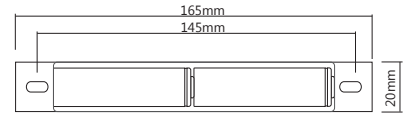
LED Emergency converter and battery YH11-CP manual test series



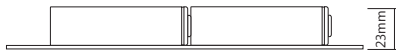
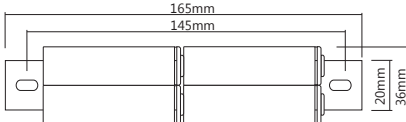
YHBL-2-1.6B
6.4V 1.6Ah



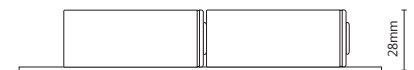
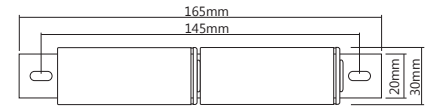
YHBL-2-1.6Z
6.4V 1.6Ah



YHBL-2-3.2
6.4V 3.2Ah



YHBL-2-3.6
6.4V 3.6Ah



Battery size

Model No.:	Battery pack L×W×H
YHBL-2-1.6B	95×36×23mm 3.74×1.42×0.9"
YHBL-2-1.6Z	165×20×23mm 6.5×0.78×0.9"
YHBL-2-2.2	95×36×23mm 3.74×1.42×0.9"
YHBL-2-3.2	165×36×23mm 6.5×1.42×0.9"
YHBL-2-3.6	165×30×28mm 6.5×1.18×1.1"

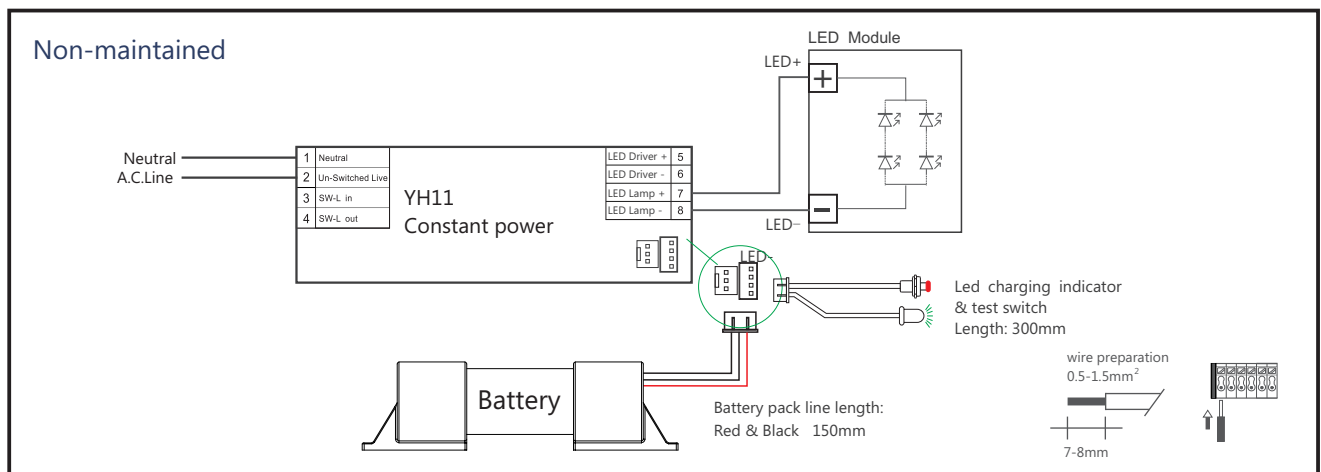
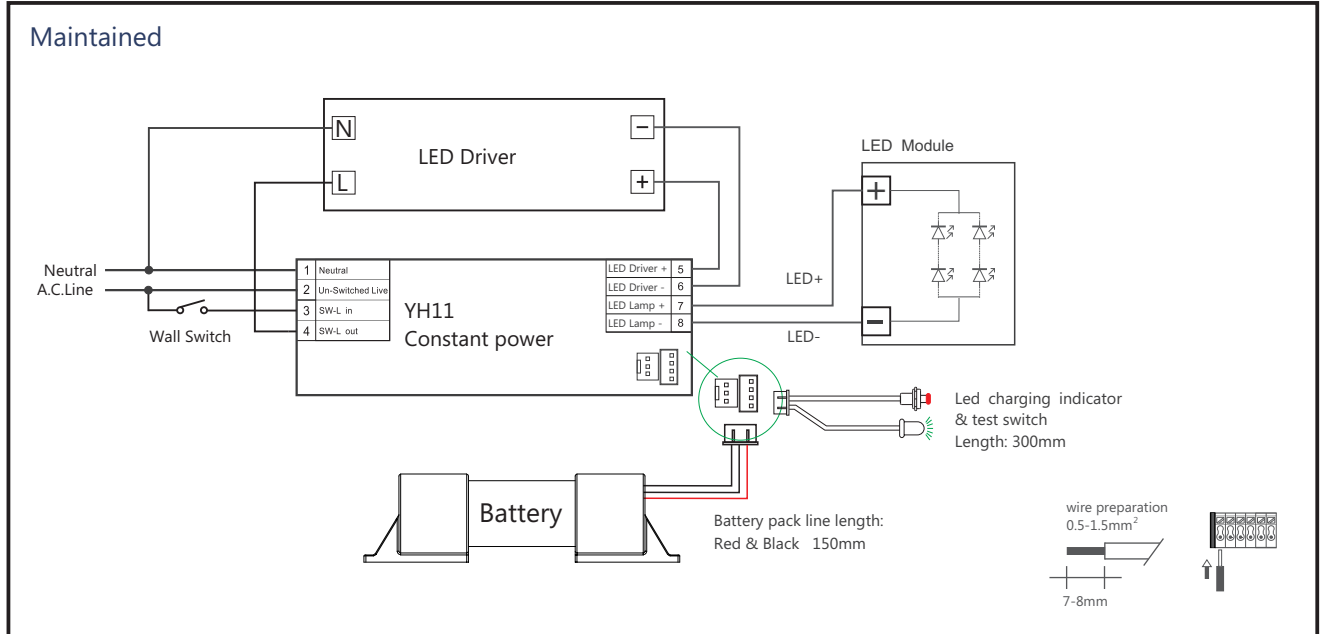
*2S1P
S: Series connection
P: Parallel connection

Technical data

Battery model	YHBL-2-1.6B/Z	YHBL-2-2.2	YHBL-2-3.2	YHBL-2-3.6
Battery voltage	6.4V	6.4V	6.4V	6.4V
Battery capacity	1600mAh	2200mAh	3200mAh	3600mAh
Charge Operating Temperature	0....+65°C	0....+55°C	0....+65°C	0....+55°C
Discharge Operating Temperature	-20....+65°C	-20....+55°C	-20....+65°C	-20....+55°C
Max short term temperature	75°C	65°C	75°C	65°C
Type of cells	18650-1600mAh	18650-2200mAh	18650-1600mAh	26650-3600mAh
Number of cells	2cells 2S1P	2cells 2S1P	4cells 2S2P	2cells 2S1P

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Wiring diagram



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.

Warranty

- Warranty 5 years, inverter and battery.
- 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.

