

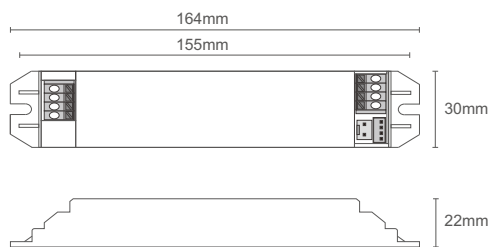
LED Emergency Power Kit YH31 Series



Product description

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

Dimension



Applications

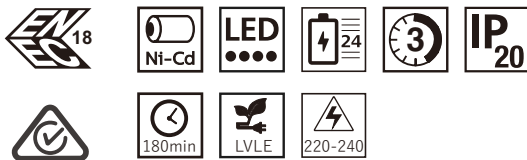
- Use in damp and dry environment.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- It can be maintained or non-maintained emergency version.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Connector between emergency kit and battery has the function of polarity reversal protection.
- Ambient range t_a 0...55°C
- 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.
- Warranty 3 years.

Relevant standard

IEC 61347-1
IEC 61347-2-7
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
EN 62493

Ordering data

Model No.	E.M Power	Duration	Battery Pack
YH31-3031050N	DC10-50V 3W	3 Hours	Ni-Cd 4.8V 3.0Ah
YH31-303H200N	DC50-200V 3W	3 Hours	Ni-Cd 4.8V 3.0Ah
YH31-4031050N	DC10-50V 4W	3 Hours	Ni-Cd 4.8V 4.5Ah
YH31-403H200N	DC50-200V 4W	3 Hours	Ni-Cd 4.8V 4.5Ah



Technical data

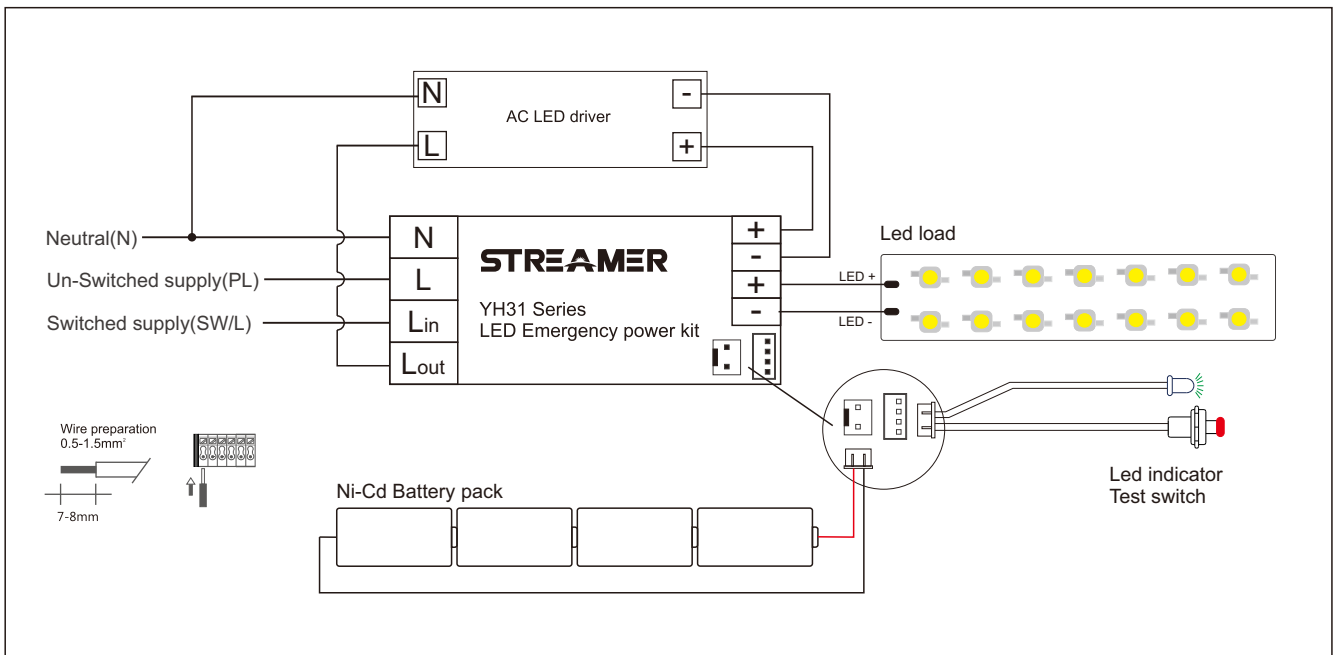
Item	YH31-3031050N	YH31-303H200N	YH31-4031050N	YH31-403H200N
Rated input voltage	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz
Input current	25mA	25mA	30mA	30mA
Input power	2.5W	2.5W	3W	3W
Power factor	0.5	0.5	0.5	0.5
Lin/Lout (LED driver input constant)	AC 3A Max	AC 3A Max	AC 3A Max	AC 3A Max
Output voltage range	DC10...50V, Uout:55V Max	DC50...200V, Uout:250V Max	DC10...50V, Uout:55V Max	DC50...200V, Uout:250V Max
Output power (Constant power)	3W	3W	4W	4W
Output current	60-300mA	15-60mA	80-400mA	20-80mA
Battery pack voltage/capacity	Ni-Cd 4.8V 3000mAh HT	Ni-Cd 4.8V 3000mAh HT	Ni-Cd 4.8V 4500mAh HT	Ni-Cd 4.8V 4500mAh HT
Recharge current	150mA	150mA	250mA	250mA
Recharge time	24hours	24hours	24hours	24hours
Duration	180 minutes	180 minutes	180 minutes	180 minutes
AC LED driver output(output +/-)	DC50V 2A Max	DC200V 0.6A Max	DC50V 2A Max	DC200V 0.6A Max
Lumen factor	130lm/W	130lm/W	130lm/W	130lm/W
Max. casing temperature t_c	80°C	80°C	80°C	80°C

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Install

- Installed on the back of the panel requires safety and fixation.
- 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



Test switch

Emergency power 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.

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.



Attention

- To guarantee the rated discharge time, please charge the battery for more than 24 hours. Please ensure that the voltage is 80% higher than the rated voltage, less than 110% of the highest rated voltage.
- Charge and discharge cycle needs to be done at least once every three months, and the continuous charging time can not exceed 3 months.

Warranty

- Warranty 3 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.