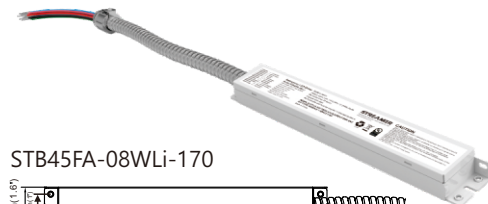


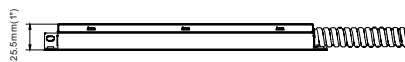
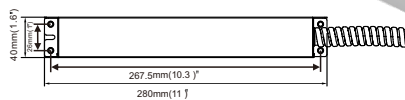
LED emergency driver STB45FA Series



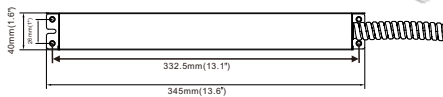
0...10V Dimming
Drive lamp's driver



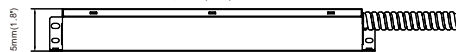
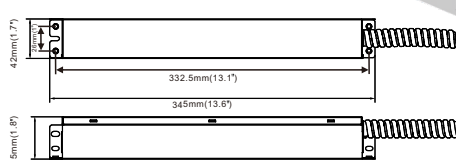
STB45FA-08WLi-170



STB45FA-16WLi-170



STB45FA-25WLi-190
STB45FA-32WLi-190



Ordering data

Model No.:	Rated Input	Rated Output	Battery pack	Dimension(L*W*H)	Emergency time
STB45FA-08WLi-170	100-277Vac,50/60Hz	DC150-170V 8W	Li-ion	280×40×25.5mm	>90minutes
STB45FA-16WLi-170	100-277Vac,50/60Hz	DC150-170V 16W	Li-ion	345×40×25.5mm	>90minutes
STB45FA-25WLi-190	100-277Vac,50/60Hz	DC120-190V 25W	Li-ion	345×42×45mm	>90minutes
STB45FA-32WLi-190	100-277Vac,50/60Hz	DC120-190V 32W	Li-ion	345×42×45mm	>90minutes

Type	STB45FA Series, Li-ion version
Notes	Draft version
Catalog Number	Rev.03_2024-04

Applications

- UL Listed for damp locations.
- Suit for 10-300W lamp with 0-10V dimming function.
- Suit for 10-32W below lamp with or without 0-10V dimming function.
- DC120-190V Output.
- Initial functional self-check.
- Built-in high power AC relay to control normal led driver operation.
- Used with Lithium iron battery.
- Over-Charging/discharging protection
- Rest mode
- >90 minutes emergency time.
- ta: 0...50°C(32°F...122°F)
- Initial functional self-test
- IP20

Initial functional self-check

Emergency pack will make a initial functional self-test automatically and red light slow flash. Checking points as below:

- Compatibility with lamp
- Lamp starting current
- Lamp starting time
- Dimming starting voltage
- Dimming slope

After passing the test, emergency pack goes to operate normally and red light stable.

It will never start this test again afterward, unless it goes into rest mode or battery is disconnected.

Protections:

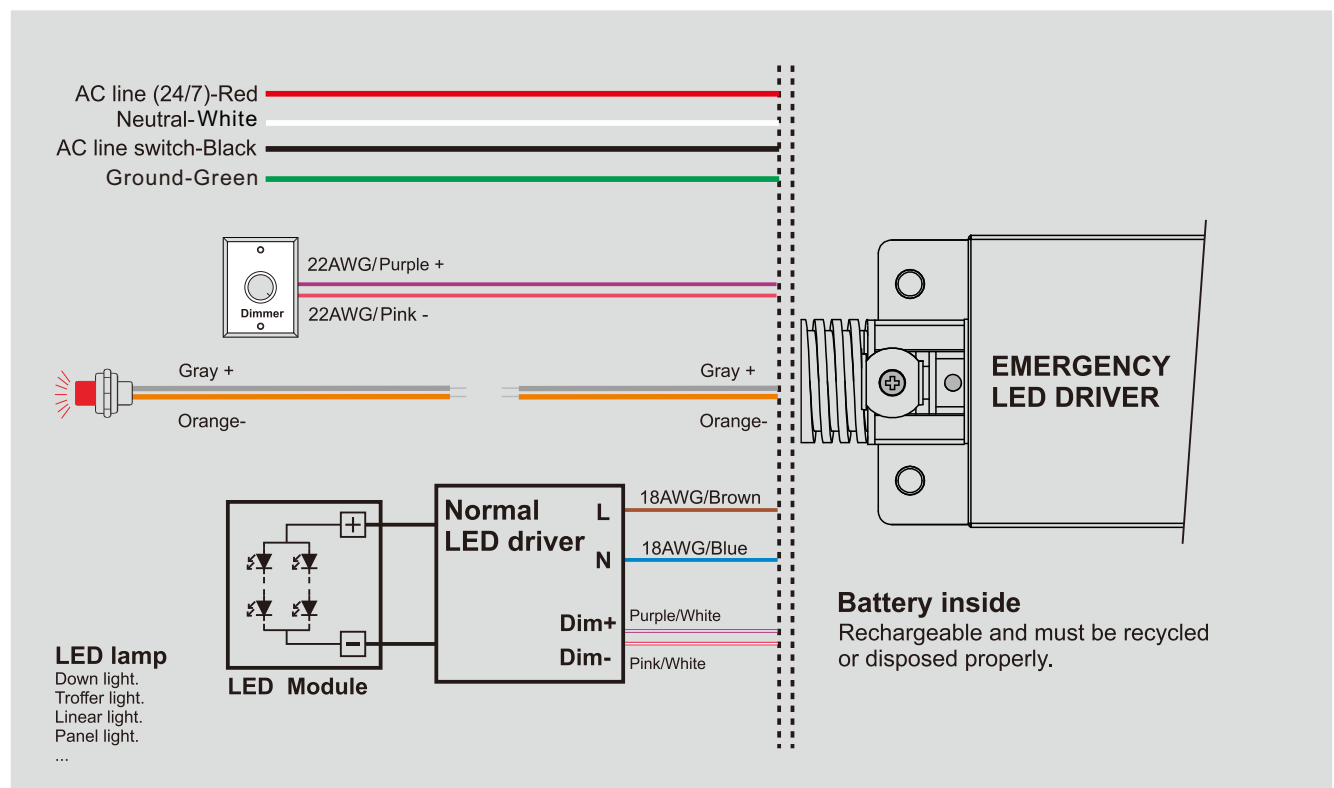
- Input over current protection.
- Output over voltage protection.
- Output under current protection.
- Output short circuit protection.

LED emergency driver STB45FA Series

Technical data

Item	STB45FA-08WLi-170	STB45FA-16WLi-170	STB45FA-25WLi-190	STB45FA-32WLi-190
Rated input	100-277Vac, 50/60Hz, 4.5W max	100-277Vac, 50/60Hz, 4.5W max	100-277Vac, 50/60Hz, 4.5W max	100-277Vac, 50/60Hz, 5W max
Input current	80mA max	80mA max	80mA max	80mA max
Power factor	>0.5	>0.5	>0.5	>0.5
Lin to Lout(Normal driver input)	AC 3A max	AC 3A max	AC 3A max	AC 3A max
Battery pack voltage/capacity	Li-ion, 7.2V2.6Ah, 18.72Wh	Li-ion, 14.4V2.6Ah, 37.44Wh	Li-ion, 10.8V5.2Ah, 56.16Wh	Li-ion, 14.4V5.2Ah, 74.88Wh
Output voltage(E.M mode)	DC150-170V	DC150-170V	DC120-190V	DC120-190V
Output power(E.M mode)	8W	16W	25W	32W
Startup capability/time	15W 500ms	32W 500ms	400W 500ms	400W 500ms
Recharge time	≥24hours	≥24hours	≥36hours	≥36hours
ta	0...50°C(32°F...122°F)	0...50°C(32°F...122°F)	0...50°C(32°F...122°F)	0...50°C(32°F...122°F)
Suitable lamp power	6-80W	10-150W	10-250W	10-300W
Lamp power that must be with 0-10V or 1-10V dimmer function.	≥8W	≥16W	≥25W	≥32W
Lamp power at 1V dimmer voltage(1W margin power).	≤7W	≤16W	≤24W	≤31W

Wiring diagram



STB45FA series will be produced and delivered with a 300mm(11.8") conduit.
The length of the conduit could be customized with extra cost if needed.

LED emergency driver STB45FA Series

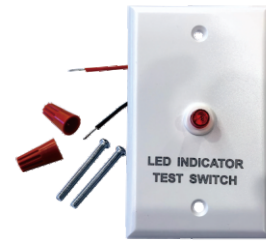
Test switch and LED indicator

LED indicator

Red stable: Charging mode

Charging Fully

OFF: Emergency mode



Indicator Light	Status	Comment
Red Stable	Charging Mode, Fully charged	AC mode, unit is operating correctly.
Flashing 2 times, Light off 2s, loop	Battery Error	Battery disconnected or fail 90mins duration test due to insufficient capacity
Flashing 3 times, Light off 2s, loop	Charging Error	Ensure input wiring is correct and verify input voltage & frequency are correct and stable.
Flashing 5 times, Light off 2s, loop	Temp Error	Overtemperature
Continuous Flashing	LED load abnormal	Matching test fail, self-check output abnormality

Test switch

- Press switch to enter into emergency mode, release to recover charging mode

Rest mode

Rest mode can ensure battery long term storage, leakage current is very low in rest mode.

- Press and hold the test switch for over 3 seconds in the emergency mode to enter into rest mode.

In rest mode, the battery is completely disconnected from the inverter, and the small leakage current can make its storage time longer.

Cancel faulty mode

- End discharge

- Disconnect battery in emergency mode.

- Press test button over 3 seconds in emergency mode.

Installation instruction:

- PLEASE INSTALL THIS PRODUCT PROPERLY BY THE LICENSED ELECTRICIAN.
- PLEASE CHECK AND CONFIRM ALL THE DATA AND USAGE SURROUNDING BEFORE INSTALLATION.
- THIS ITEM COULD BE USED IN THE SEALED FIXTURES OR INSTALLED OPEN AREA OF THE FIXTURES.
- 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.**

Warranty

- Warranty 5 years, Battery pack 5years
- 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.

* If users would like to change the batteries pack, please use the nominated models of STREAMER , then it will be under the warranty .