

Dynavion40L/40H/60L/60H LED Emergency Driver

STB63F(H) Series 40W 60W



Product Information

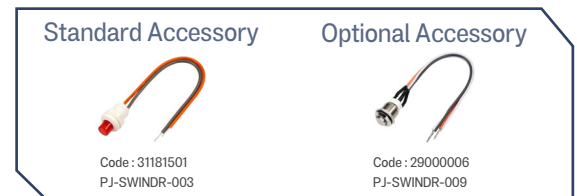
- UL listed for damp locations.
- AC/DC-powered LED driver with stable output.
- Supports both pre-installed and on-site retrofit scenarios.
- For Indoor fixture only.
- Not intended for use in luminaires installed in hazardous locations.

Product Feature

- Integrated emergency kit with combined driver and battery pack.
- Some models support an input voltage of AC 277–480V.
- Surface-mounted on the luminaire housing.
- Equipped with high-capacity, long-life LFP (LiFePO4) battery pack.
- Hassle-free battery replacement.
- Includes rest mode for extended storage life.
- Over-Charging/discharging protection.
- Operating ambient temperature: 32°F to 140°F (0°C to 60°C)
- 8-year design life and 5-year limit warranty.

Test Button and LED Indicator

- Integrated test button with LED status indicator.
- Press the test button to activate emergency mode; release to return to charging mode.
- Solid red LED indicates normal charging mode.



Rest Mode

Rest mode is designed to extend battery shelf life by minimizing leakage current during long-term storage.

- To activate rest mode, press and hold the test button for more than 3 seconds under emergency mode.
- In rest mode, the battery is fully disconnected from the inverter, significantly reducing leakage current and allowing for longer storage.

Technical Data

Model No.:	Rated Input Power	Input Current	Power Factor	Output Wire L-out N-out (Normal Driver Input)	Startup time	Recharge Time	Compatible Luminaire Power	Ambient Range
STB63F-40WL-AC	8W max	100mA max	>0.5	AC 8A Max	<500ms	≥24hours	35-380W	32 to 140°F
STB63F-60WL-AC	8W max	100mA max	>0.5	AC 2A Max	<500ms	≥48hours	50-600W	32 to 140°F
STB63F-60WL-DC	8W max	100mA max	>0.5	AC 2A Max	<500ms	≥48hours	50-600W	32 to 140°F
STB63FH-60WL-DC	8W max	100mA max	>0.4	AC 2A Max	<500ms	≥48hours	50-600W	32 to 140°F

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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 Start Boltage
- Dimming Slope

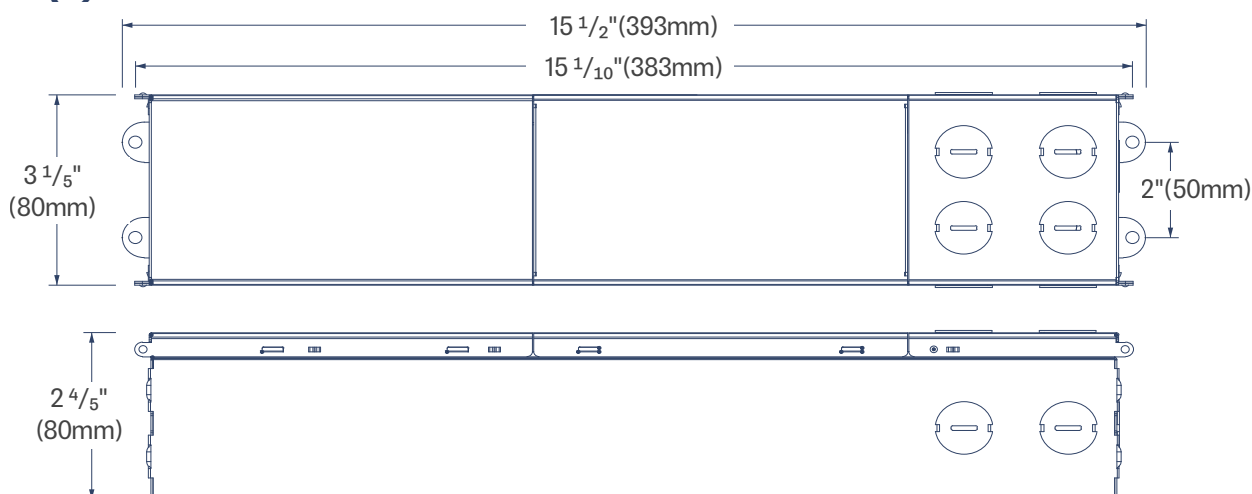
After passing the test, emergency pack goes to operate normally and red light stable.

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

LED Indicator Light Status Guide

Indicator Light	Status	Comment
🟢 Red – Stable	Charging mode, battery fully Charged	✅ AC Mode, unit is operating correctly
⚠️ Flashing 2 times, then OFF 2s (loop)	Battery Error	🔋 Battery disconnected or failed 90-Minute Duration Test due to insufficient capacity
⚠️ Flashing 3 times, then OFF 2s (loop)	Charging Error	🔌 Ensure input wiring is correct and verify Input voltage & frequency are stable
🔥 Flashing 5 times, then OFF 2s (loop)	Temperature Error	⚠️ Over-temperature condition detected
💡 Continuous Flashing	LED Load Abnormal	⚠️ Test failure: matching error or abnormal self-check output
🕒 Fast Flashing (every 0.1s, lasting 30s)	Function Test	📅 Automatically performed every 30 calendar days
🕒 Slow Flashing (every 1s, lasting 90 min)	Duration Test	📅 Automatically performed every 180 calendar days
💡 Red – off	Battery disconnected / Discharge mode	🔋 The battery is not connected or has entered emergency mode.

STB63F(H) Series



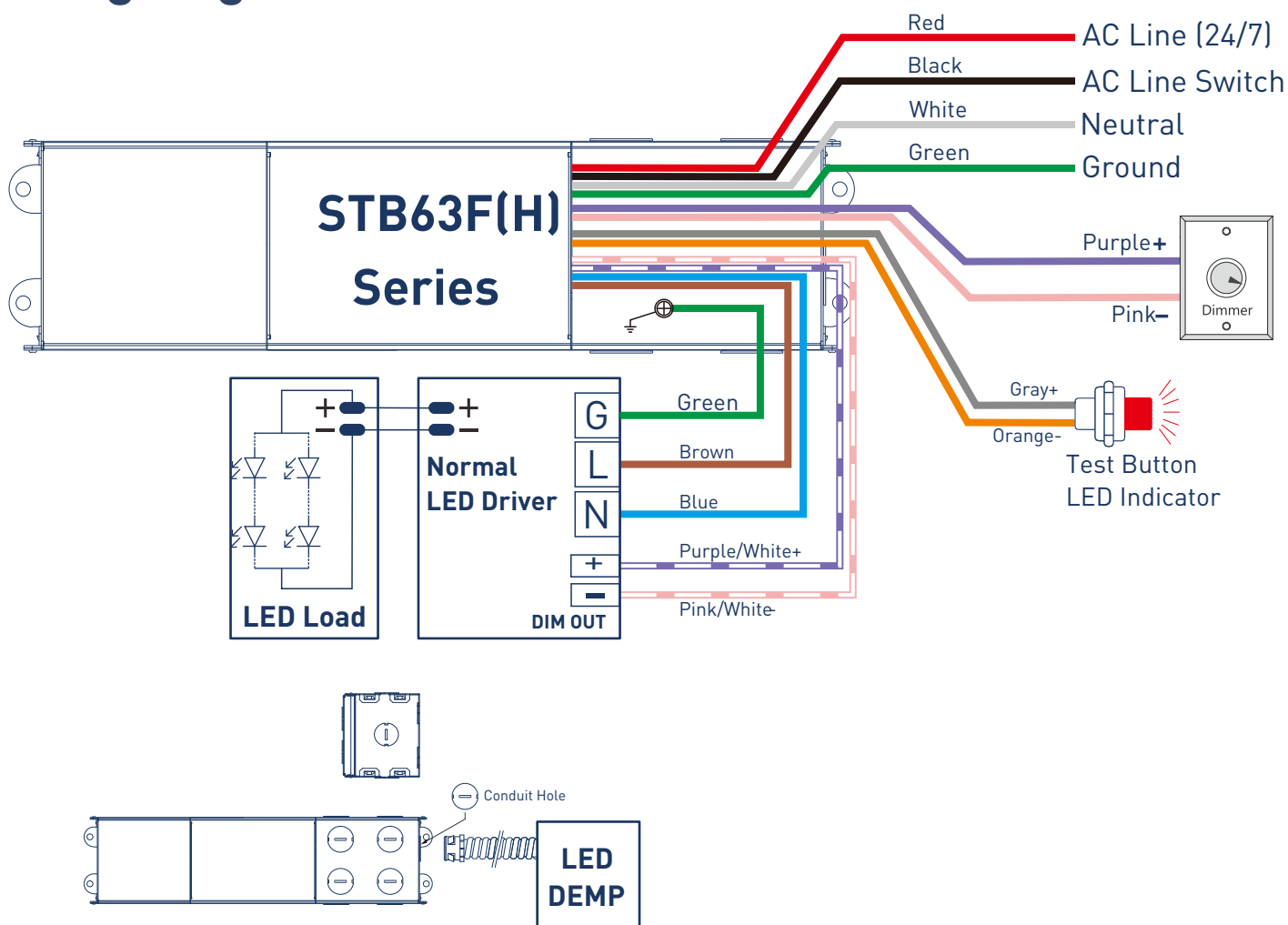
Model No.:	Length	Width	Height	Mounting Hole Spacing
STB63F(H) Series	15 1/2" (393mm)	3 1/5" (80mm)	2 4/5" (71mm)	15 1/10" (383mm) / 2" (50mm)

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Ordering Data

Model No.:	Rated Input	Rated Output	Battery Pack	Duration
STB63F-40WL-AC	100-347Vac 50/60Hz	AC120V(Sine wave) 33-38W	LiFePO ₄ 12.8V 6.6Ah 84.48Wh	>90 minutes
STB63F-60WL-AC	100-347Vac,50/60Hz	AC120V(Sine wave) 50-60W	LiFePO ₄ 12.8V 12Ah 153.6Wh	>90 minutes
STB63F-60WL-DC	100-347Vac,50/60Hz	DC130-190V 50-60W	LiFePO ₄ 12.8V 12Ah 153.6Wh	>90 minutes
STB63FH-60WL-DC	277-480Vac 50/60Hz	DC250-450V 50-60W	LiFePO ₄ 12.8V 12Ah 153.6Wh	>90 minutes

Wiring Diagram



Multiple wiring hole orientations available