



HotSpot LED Emergency Solutions



Fulham's innovative HotSpot family of LED emergency drivers provides powerful, reliable LED backup lighting for any situation.

HotSpot Plus

Single compact unit combines standard LED driver, emergency LED driver, and backup battery.

HotSpot1

Adds discrete LED emergency lighting to existing non-emergency fixtures, including UL Classified kits for fluorescent troffers.

HotSpot2

Drives existing constant current modules at required emergency output levels during power outages.

Contact your Fulham rep or Fulham Client Services for pricing or to place an order:
order@fulham.com 323-599-5000

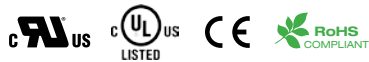
HotSpot Plus LED Driver & Emergency System

The Power of a Programmable LED Driver, the Dependability of an Integrated LED Battery Backup System

- Single unit combines 0-10V dimmable LED driver, emergency LED driver, and replaceable backup battery
- Lowers costs by eliminating need to install separate emergency system
- Simple installation helps reduce assembly line confusion and wiring mistakes
- Output current programmable in 1mA increments using handheld controller
- SmartSet programming platform enables integration of more efficient modules in luminaire designs

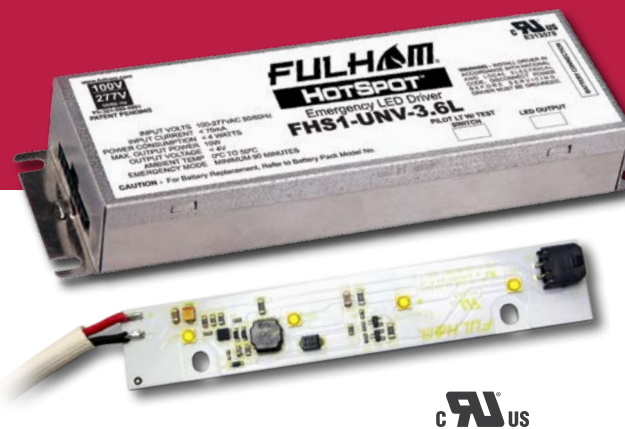
The new HotSpot Plus driver adds emergency capability to Fulham's family of smart, programmable LED drivers. Under normal conditions, the HotSpot Plus functions as a dimmable 40W constant current LED driver, with a programmable output current range of 250-1400mA. During a power outage, this all-in-one system automatically engages an integrated backup battery, which can provide 5W of power for 180 minutes or 10W for 90 minutes. Available in two form factors for maximum flexibility, the HotSpot Plus is the smallest complete emergency LED solution available.

HotSpot Plus LED Driver and Emergency System								
Watts	Output Current (mA)	Output Voltage (VDC)	Model Number	Input Voltage (VAC)	Dimming Type	Chan.	Dimensions (LxWxH)	Case Type
40	250-1400	10-55	FHSAC1-UNV-40C	120 - 277 (50/60Hz)	0-10V	1	6.29" x 3.0" x 1.10"	Compact w/End Leads
40	250-1400	10-55	FHSAC1-UNV-40BLS	120 - 277 (50/60Hz)	0-10V	1	6.37" x 3.0" x 1.54"	Compact w/Bottom Leads
40	250-1400	11-55	FHSAC1-UNV-40L	120 - 277 (50/60Hz)	0-10V	1	9.5" x 2.4" x 1.34"	Linear w/End Leads



Specifications	
Input Current	0.45A @ 120VAC, 0.21A @ 277VAC
Power Factor	>0.9
THD	<20%
Dimming Range	100% - 1%
Battery Type	LiFePO4 6.4VDC
Battery Capacity	3200mAh
Recharge Time	12 Hours
Warranty	5 years. See specification sheet for details.
Advanced Features	Illuminated test switch/AC power indicator, switchable self-diagnostics, user-selectable emergency power level (700 lumens for 180 min or 1400 lumens for 90 min using a 140 LPW LED module)





HotSpot1 Emergency System

HotSpot1 modular LED systems add inconspicuous emergency lighting capability to existing non-emergency fixtures, such as recessed lighting and wall sconces. They feature a wide choice of lumen output levels, run times, discrete size, universal input voltage, and plug-n-play low voltage output wiring. The result: extreme adaptability, low cost of installation, and a high level of safety during operation.

HotSpot1: Driver	
Model Number	FHS1-UNV-3.6L
Input Voltage	100-277VAC (UNV)
Input Frequency	50/60Hz
Input Current	0.07 A
Input Wattage	4W
Compatible Batteries	NiCd, 3.6 VDC
Battery Capacities	3AH, 4AH, 7AH
Total LED Power	10W
Illumination Time	90 - 360 Min.
Surge Protection	C62.41 (TVS)
Over Current Protection	Fuse
Recharge Time	24 Hrs - 48 Hrs
LED Connection	Parallel
LED Output Protection	Self Resetting PTC
Output Classification	UL1310/Class 2

HotSpot1: Modules				
Model Number	Watts	Shape	Applications	
FHS6-AR-3WL	3	Linear	Wall sconce, ceiling flush mount, low level lighting	
FHS1-AR4-WL	4	Linear	Wall sconce, ceiling flush mount, low level lighting	
FHS2-AR4-WC	4	Circular	Recessed down lighting, wall sconce cylinder	
FHS5-AR-6W-CL	6	Cluster	Circular lamp applications, e.g. Parking lot fixtures	
FHS3-AR-6W-SH	6	Small-H	Wall sconce, ceiling flush mount	
FHS4-AR-8W-LH	8	Large-H	Wall sconce, ceiling flush mount	
FHS3-AR-10W-SH	10	Small-H	Wall sconce, ceiling flush mount	
FHS4-AR-10W-LH	10	Large-H	Wall sconce, ceiling flush mount	

HotSpot1: Battery Packs				
Model Number	Battery Qty/Type	Operation Duration	Output Power/Time	Dimensions (LxWxH)
FHSBATT3-C3	3C	3 Amp/Hrs	4W: 145min, 6W: 90min	3.10" x 2.00" x 1.00"
FHSBATT3-D4	3D	4 Amp/Hrs	4W: 200min, 6W: 125min, 8W: 90min	4.00" x 2.50" x 1.35"
FHSBATT3-F7	3F	7 Amp/Hrs	4W: 360min, 6W: 235min, 8W: 175min, 10W: 135min	4.00" x 3.60" x 1.35"
FHSBATT3-F7L	3F	7 Amp/Hrs	4W: 360min, 6W: 235min, 8W: 175min, 10W: 135min	11.75" x 1.56" x 1.37"

HotSpot1 UL Classified Kits for Troffers

HotSpot1 kits for troffers are UL Classified emergency lighting systems approved for field installation. Each kit includes a HotSpot1 LED driver, battery pack, LED module, required hardware, the necessary UL Classified label (to secure to the fixture after installation), and complete installation instructions. These battery backup kits are independent (not electrically connected) from the normal lumination source.



UL Classified Kits					
Model Number	Watts	Lumen Output	Estimated Run Time	Array Type	Array Dimensions (LxW)
FHSKITT03LNC	3	450	145 Mins	Linear	4.68" x 0.82"
FHSKITT03LND	3	450	200 Mins	Linear	4.68" x 0.82"
FHSKITT03LNF	3	450	360 Mins	Linear	4.68" x 0.82"
FHSKITT03LNFL†	3	450	360 Mins	Linear	4.68" x 0.82"
FHSKITT04LNC	4	500	145 Mins	Linear	4.68" x 0.82"
FHSKITT04LND	4	500	200 Mins	Linear	4.68" x 0.82"
FHSKITT04LNF	4	500	360 Mins	Linear	4.68" x 0.82"
FHSKITT06SHC	6	750	90 Mins	Small-H	3.54" x 3.93"
FHSKITT06SHD	6	750	125 Mins	Small-H	3.54" x 3.93"
FHSKITT06SHF	6	750	235 Mins	Small-H	3.54" x 3.93"
FHSKITT07LND*	7	900	100 Mins	Linear	4.68" x 0.82"
FHSKITT07LNF*	7	900	180 Mins	Linear	4.68" x 0.82"
FHSKITT07LNFL*†	7	900	180 Mins	Linear	4.68" x 0.82"
FHSKITT08LHD	8	1000	90 Mins	Large-H	5.71" x 3.93"
FHSKITT08LHF	8	1000	175 Mins	Large-H	5.71" x 3.93"
FHSKITT10LHF	10	1250	135 Mins	Large-H	5.71" x 3.93"
FHSKITT10SHF	10	1250	135 Mins	Small-H	3.54" x 3.93"
FHSKITT10LNF**	10	1350	120 Mins	Linear	4.68" x 0.82"
FHSKITT10LNFL**†	10	1350	120 Mins	Linear	4.68" x 0.82"

*Includes 2 linkable 450lm linear modules

** Includes 3 linkable 450lm linear modules

†Linear Battery



HotSpot2 Emergency System

The HotSpot2 emergency lighting system drives existing constant current LED modules during power outages. A complete system is composed of an emergency driver (sometimes called a charger), a battery, and a wiring harness. A wide range of lumen output and run times are available.

HotSpot2: Drivers		
Model Number	FHS2-UNV-36L	FHS2-UNV-56S
Output Working Voltage	11 - 36 VDC	11 - 56 VDC
Dimensions (LxWxH)	5.34" x 1.69" x .93"	9.5" x 1.19" x 1"
Input Voltage	100-277VAC	
Input Frequency	50/60Hz	
Input Current	0.07 A	
Surge Protection	C62.41 (MOV)	
Over Current Protection	Fuse	
Recharge Time	24-48Hrs	
LED Connection	Series	
LED Output Protection	Self Resetting PTC	
Output Classification	UL1310/Class 2	
Illumination Time	90 - 350 Min	
LED Currents	100mA - 700mA	
Total LED Power	20W	



Wiring harnesses are used to set the current to the LED module during emergency operation. Using lower current will allow longer run times.

HotSpot2: Harnesses			
Model Number	mA	Model Number	mA
FHS-HARNESS-100	100	FHS-HARNESS-350	350
FHS-HARNESS-125	125	FHS-HARNESS-400	400
FHS-HARNESS-150	150	FHS-HARNESS-450	450
FHS-HARNESS-175	175	FHS-HARNESS-500	500
FHS-HARNESS-200	200	FHS-HARNESS-550	550
FHS-HARNESS-225	225	FHS-HARNESS-600	600
FHS-HARNESS-250	250	FHS-HARNESS-650	650
FHS-HARNESS-300	300	FHS-HARNESS-700	700

HotSpot2: Batteries							
Model	Max Load for 90 min.		Dimensions	Chemistry	Capacity	Battery Count	Recharge Time
	-36L	-56S					
FHSBATT8-AA.9	4W	4W	5.23" x 2.39" x 0.66"	NiCd	900mAh	8 Cells	24Hrs
FHSBATL3-1	4W	4W	3.48" x 2.29" x 0.91"	LiFePo4	1000mAh	3 Cells	24Hrs
FHSBATL6-.6	6W	4W	5.23" x 1.88" x 0.88"	LiFePo4	1200mAh	6 Cells	24Hrs
FHSBATL3-1.5	8W	8W	3.48" x 2.70" x 0.91"	LiFePo4	1500mAh	3 Cells	24Hrs
FHSBATL3-1.5S	8W	8W	8.87" x 1.11" x 0.96"	LiFePO4	1500mAh	3 Cells	32Hrs
FHSBATL9-.6	10W	8W	7.52" x 1.88" x 0.88"	LiFePo4	1800mAh	9 Cells	24Hrs
FHSBATCC3-3*	10W	14W	6.00" x 3.60" x 1.55"	LiFePo4	3000mAh	3 Cells	32Hrs
FHSBATL6-1.5	16W	14W	5.70" x 2.70" x 0.91"	LiFePo4	3000mAh	6 Cells	32Hrs
FHSBATL6-1.5L	16W	14W	7.89" x 1.50" x 1.19"	LiFePo4	3000mAh	6 Cells	32Hrs
FHSBATL6-1.5S	16W	14W	16.7" x 1.11" x 0.96"	LifePO4	3000mAh	6 Cells	32Hrs
FHSBATT8-C3	16W	16W	4.15" x 3.29" x 2.11"	NiCd	3000mAh	8 Cells	32Hrs
FHSBATT8-C3L	16W	16W	7.89" x 2.06" x 1.04"	NiCd	3000mAh	8 Cells	32Hrs
FHSBATL3-3	16W	16W	4.39" x 2.76" x 1.22"	LiFePo4	3000mAh	3 Cells	32Hrs
FHSBATT8-D4	20W	20W	4.95" x 3.84" x 2.66"	NiCd	4000mAh	8 Cells	32Hrs
FHSBATL6-3	20W	20W	7.52" x 2.76" x 1.22"	LiFePo4	6000mAh	6 Cells	48Hrs
FHSBATL6-3L	20W	20W	7.94" x 2.09" x 1.19"	LiFePo4	6000mAh	6 Cells	48Hrs

*COLD PACK BATTERY: -20°C minimum operating temperature

Ordering a complete HotSpot2 Emergency System:

- Select a DRIVER (FHS2-UNV-36L or FHS2-UNV-56S) based on dimensions and output voltage
- Select a BATTERY based on dimensions, total capacity, and max load
- Select a WIRING HARNESS based on required current and run time

Also Available: Lead extensions for remote mounting of batteries, and mounting brackets for linear batteries.