



# *Emergency and Exit Solutions Product Selection Guide*



LED Emergency Backup | Fluorescent Emergency Ballasts | Emergency Lights & Exit Signs



# A Pioneer in Lighting Electronics

Fulham is dedicated to clever, sustainable lighting solutions that give our users the power to create or install smart, differentiated lighting. Fulham's revered product quality and world-class customer responsiveness make us the preferred partner to over 3000 lighting manufacturers and distributors worldwide.

From our headquarters in Los Angeles, USA, and design centers around the world, our team of product managers and engineers work with our customers to conceive, design, and manufacture reliable, sustainable lighting solutions that bring cutting edge innovation to a global market.



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Field-installable LED backup capability for existing luminaires  
**OEM / Distribution**

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LED backup for LED luminaires  
**OEM**

#### HotSpot Plus 6

LED driver with integrated emergency backup capability  
**OEM**

#### HotSpot 7

**Constant Power**  
Field-installable constant power emergency output  
**OEM / Distribution**

#### HotSpot EZ Exit 8

Inconspicuous emergency lighting for T-Grid ceilings  
**Distribution**

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### Fluorescent Emergency Ballasts

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Reliable fluorescent backup

## HotSpot Plus 70W Emergency System

The original all-in-one LED driver, emergency LED driver, and replaceable backup battery, the HotSpot Plus now provides 70W of power in an integrated, linear unit that lowers costs, simplifies installation, and provides emergency capability to smaller luminaires.

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## HotSpot EZ Exit

The innovative alternative to traditional emergency fixtures. Linear LED strips mount seamlessly in standard T-grid ceilings, with constant power emergency drivers mounted out of sight on top of the grid. During power outages the system provides at least 90 minutes of reliable, hassle-free emergency lighting.

See page 8 for more

## CEC Title 20 Compliant Emergency Systems

Fulham is committed to lowering energy consumption in all its products, including its emergency lighting systems. We offer a full range of CEC Title 20 Compliant emergency products, including HotSpot LED backup systems, FireHorse fluorescent ballasts, and FireHorse emergency lights. CEC compliance is required for products used in California, and ensures low energy use when emergency systems are in standby mode.

**BC** Look for the BC logo to indicate CEC Title 20 Compliant products



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Emergency lights		New York approved emergency lights and exit signs		Vandal-resistant shields, wire guards, Spanish faceplates, and remote heads	
<b>FHEX Series</b>	<b>12-13</b>	<b>FHCH Series</b>	<b>17</b>	<b>FREELITE</b>	<b>19</b>
Exit signs		Chicago approved emergency lights and exit signs		Photoluminescent exit signs	
<b>FHEC Series</b>	<b>14-15</b>			<b>Contact Us</b>	<b>Back Cover</b>
Combo emergency lights and exit signs					

For specification sheets, installation instructions, and additional documentation, visit [www.fulham.com](http://www.fulham.com).  
Or contact Fulham Client Services at +1 323.599.5000 for more information.



## HotSpot1 LED Emergency Systems

HotSpot1 systems add LED emergency lighting capability to existing luminaires, including TLED luminaires and retrofit projects. UL Classified kits are approved for field installation and are ideal for both fluorescent and Type A and B LED tubes. A complete kit includes an emergency driver, module, battery, installation instructions, and all necessary hardware and labels. The system operates independently of the luminaire's light source, ensuring compatibility with many types of luminaires.



### HotSpot1 Emergency Driver

Model Number	FHS1-UNV-3.6L
Input Voltage	100-277VAC (UNV)
Input Frequency	50/60Hz
Input Current	0.06 A Max.
Input Wattage	10W Max.
Standby Input Power	<0.8W
Compatible Batteries	NiCd, 3.6 VDC
Battery Capacities	3AH, 4AH, 8AH
Total LED Power	1-10W
Illumination Time	90 - 360 Min.
Surge Protection	C62.41 (TVS)
Over Current Protection	Fuse
Recharge Time	32 - 48 Hrs
LED Connection	Parallel
LED Output Protection	Self Resetting PTC
Output Classification	UL1310/Class 2

### HotSpot1 Emergency 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
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 Emergency Battery Packs

Model Number	Battery Qty/Type	Operation Duration	Output Power/Time	Dimensions (L x W x H)
FHSBATT3-C3	3/C	3 Amp/Hrs	4W: 145min, 6W: 90min	3.1" x 2.00" x 1.00"
FHSBATT3-D4	3/D	4 Amp/Hrs	4W: 200min, 6W: 125min, 8W: 90min	4.00" x 2.50" x 1.35"
FHSBATT3-F7	3/F	8 Amp/Hrs	4W: 360min, 6W: 235min, 8W: 175min, 10W: 135min	4.00" x 3.60" x 1.35"
FHSBATT3-F7L	3/F	8 Amp/Hrs	4W: 360min, 6W: 235min, 8W: 175min, 10W: 135min	11.75" x 1.56" x 1.37"

## HotSpot1 LED Emergency Retrofit Kits



Model Number	Watts	Lumen Output	Comparable Fluorescent Lumen Output	Estimated Run Time (Mins)	Module Dimensions (L x W)	Case Qty.
<b>Linear Module</b>						
FHSKITT03LNC	3	450	720	145	4.68" x 0.82"	10
FHSKITT03LND	3	450	720	200	4.68" x 0.82"	10
FHSKITT03LNF	3	450	720	360	4.68" x 0.82"	20
FHSKITT03LNFL*	3	450	720	360	4.68" x 0.82"	20
FHSKITT04LNC	4	500	800	145	4.68" x 0.82"	10
FHSKITT04LND	4	500	800	200	4.68" x 0.82"	10
FHSKITT04LNF	4	500	800	360	4.68" x 0.82"	20
<b>Linked Linear (2 Modules)</b>						
FHSKITT07LND	7	900	1440	100	4.68" x 0.82"	10
FHSKITT07LNF	7	900	1440	180	4.68" x 0.82"	20
FHSKITT07LNFL*	7	900	1440	180	4.68" x 0.82"	20
<b>Linked Linear (3 Modules)</b>						
FHSKITT10LNF	10	1350	2160	120	4.68" x 0.82"	20
FHSKITT10LNFL*	10	1350	2160	120	4.68" x 0.82"	20
<b>Small-H Module</b>						
FHSKITT06SHC	6	750	1200	90	3.54" x 3.93"	10
FHSKITT06SHD	6	750	1200	125	3.54" x 3.93"	10
FHSKITT06SHF	6	750	1200	235	3.54" x 3.93"	20
FHSKITT10SHF	10	1250	2000	135	3.54" x 3.93"	20
<b>Large-H Module</b>						
FHSKITT08LHD	8	1000	1600	90	5.71" x 3.93"	10
FHSKITT08LHF	8	1000	1600	175	5.71" x 3.93"	20
FHSKITT10LHF	10	1250	2000	135	5.71" x 3.93"	20

\* Linear battery





## HotSpot2 LED 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, emergency battery, and output wire harness. A wide range of lumen output and run times are available.



### HotSpot2 Drivers

Model Number	FHS2-UNV-36L	FHS2-UNV-56S
Input Voltage	100-277VAC	
Input Frequency	50/60Hz	
Input Current	0.1A Max	
LED Currents	100mA - 700mA	
Standby Input Power	<0.8W	
Total LED Power	20W	
Input Surge Protection	2.5KV Ring Wave	
Over Current Protection	Fuse	
Illumination Time	90 - 350 Min	
LED Connection	Series	
LED Output Protection	Self Resetting PTC	
Output Classification	UL1310/Class 2	
Bicolor LED Indicator	Included LED indicator / test switch provides automatic system status updates	
Output Voltage	12 - 55VDC	12 - 56VDC
Dimension (L x W x H)	5.3" x 1.7" x .93"	9.5" x 1.19" x 1"

### HotSpot2 Emergency Battery Packs

Model Number	Dimensions (L x W x H)	Chemistry	Capacity (mAh)	Battery Count	Recharge Time	Max. Load for 90 min. (W)	
						-36L	-56S
FHSBATT8-AA.9	5.23" x 2.39" x 0.66"	NiCd	900	8 Cells	24Hrs	4	4
FHSBATL3-1	3.48" x 2.29" x 0.91"	LiFePO4	1000	3 Cells	24Hrs	4	4
FHSBATL6-.6	5.23" x 1.88" x 0.88"	LiFePO4	1200	6 Cells	24Hrs	6	4
FHSBATL3-1.5	3.48" x 2.70" x 0.91"	LiFePO4	1500	3 Cells	24Hrs	8	8
FHSBATL3-1.5S	8.87" x 1.11" x 0.96"	LiFePO4	1500	3 Cells	24Hrs	8	8
FHSBATL9-.6	7.52" x 1.81" x 1.18"	LiFePO4	1800	9 Cells	24Hrs	10	8
FHSBATTCC3-3†	6.00" x 3.60" x 1.55"	LiFePO4	3000	3 Cells	24Hrs	14*	14*
FHSBATL6-1.5	5.70" x 2.70" x 0.91"	LiFePO4	3000	6 Cells	24Hrs	16	14
FHSBATL6-1.5L	7.89" x 1.50" x 1.19"	LiFePO4	3000	6 Cells	24Hrs	16	14
FHSBATL6-1.5S	16.7" x 1.11" x 0.96"	LiFePO4	3000	6 Cells	24Hrs	16	14
FHSBATT8-C3	4.15" x 3.29" x 2.11"	NiCd	3000	8 Cells	24Hrs	16	16
FHSBATT8-C3L	7.89" x 2.06" x 1.04"	NiCd	3000	8 Cells	24Hrs	16	16
FHSBATL3-3	4.39" x 2.76" x 1.22"	LiFePO4	3000	3 Cells	24Hrs	16	16
FHSBATT8-D4	4.95" x 3.84" x 2.66"	NiCd	4000	8 Cells	24Hrs	20	20
FHSBATL6-3	7.52" x 2.76" x 1.22"	LiFePO4	6000	6 Cells	32Hrs	20**	20**
FHSBATL6-3L	8.00" x 2.09" x 1.18"	LiFePO4	6000	6 Cells	32Hrs	20**	20**

† Cold Pack Battery: -20°C minimum operating temperature \* Rated 10W for Canada \*\* Rated 16W for Canada

### HotSpot2 Accessories

#### Wiring harnesses:

Used to set the output current to the LED module during emergency operation. Using lower current will allow longer run times.

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

FHS-TSTWL-BC	IP67, bicolor LED Indicator / test switch for use in exposed, outdoor-rated luminaires
FHS-EXT12M	12" battery extension cable
FHS-EXT12L	12" battery extension cable (for battery FHSBATT8-AA.9 only)
FHS-EXT12H	12" battery extension cable (for battery FHSBATT8-D4 only)
FHS-EXT-48-TST	48" test switch extension cable

Also available: battery mounting brackets, wallplates, and side enclosures. For more information, visit [www.fulham.com](http://www.fulham.com)



## HotSpot Plus LED Driver Emergency System

The revolutionary HotSpot Plus LED Driver & Emergency System combines the functions of a dimmable, programmable LED driver, emergency LED driver, and replaceable backup battery in a single compact unit. Under normal conditions this all-in-one solution operates as a constant current driver; during a power outage the integrated battery automatically activates, providing reliable emergency illumination for safe building egress. Benefits include lower costs, simplified installation, and the ability to bring emergency LED capability to smaller luminaires.

- Output current can be programmed in 1mA increments
- Selectable emergency output:  
40W models: 5W for 180 minutes or 10W for 90 minutes  
70W models: 7W for 90 minutes by default, programmable for lower power and longer runtime
- Compact size and simple installation for maximum flexibility



### Specifications

Input Current	0.45A @ 120VAC, 0.21A @ 277VAC	Battery Type	LiFePO4 6.4VDC
Power Factor	>0.9	Battery Capacity	3200mAh
THD	<20%	Recharge Time	12 Hours
Dimming Range	100% - 1%	Warranty	5 years
Advanced Features	Illuminated test switch, switchable self-diagnostics, user-selectable emergency power level		

### HotSpot Plus LED Driver and Emergency System

Watts	Output Current (mA)	Output Voltage (VDC)	Model Number	Input Voltage (VAC)	Dimming Type	Ch.	Dimensions (L x W x H)	Case Type
40	250-1400	10-55	FHSAC1-UNV-40BLS	120-277; 50/60Hz	0-10V	1	6.38" x 3.15" x 1.54"	Compact w/ Bottom Leads
40	250-1400	10-55	FHSAC1-UNV-40C	120-277; 50/60Hz	0-10V	1	6.3" x 3" x 1.1"	Compact w/ End Leads
40	250-1400	11-55	FHSAC1-UNV-40L	120-277; 50/60Hz	0-10V	1	9.49" x 2.40" x 1.34"	Linear w/ End Leads
70	350-2400	11-55	FHSAC1-UNV-70S	120-277; 50/60Hz	0-10V	1	16.71" x 1.18" x 1.00"	Linear w/ Terminals

### The Power of Programmability

HotSpot Plus drivers feature Fulham's innovative SmartSet programming platform, which gives the user the power to create the right driver for any situation.

- Auto Programming capability for high volume usage
- Driver does not need to be powered during programming
- Programming via handheld controller or PC software



TPSB-100  
SmartSet Controller



SmartSet  
Software

To see the Fulham SmartSet programming platform in action visit the links below:

Overview of basic programming features: [www.fulham.com/smartsetprogramming](http://www.fulham.com/smartsetprogramming)

One touch Auto-Programming: [www.fulham.com/smartsetauto](http://www.fulham.com/smartsetauto)

Programming custom dimming curves: [www.fulham.com/smartsetdimmingcurve](http://www.fulham.com/smartsetdimmingcurve)



## HotSpot Constant Power Programmable LED Emergency Driver

Provides programmable, constant power emergency output for LED luminaires. Advanced features include self-diagnostics, detailed data logging, and bicolor LED indicator/test switch. Meets CEC Title 20 battery charger requirements. Complete system includes emergency driver and emergency battery. Ideal for OEMs.



### Driver Specifications

Model Number	FHSCP-UNV-10P-L-SD	RFI/EMI	FCC Part 15A Non-Consumer
Input Voltage	100-277VAC, 50/60Hz	Output Type	Class 2
Input Current	0.06A Max.	Ambient Operating Temperature Range	10°C to 55°C (50°F to 131°F)
Output Power	1-10W	Dimensions (L x W x H)	7.89" x 2.05" x 1.17"
Output Current	620mA Max.	Certifications	cULus, CE, ENEC, RoHS, CEC Title 20
Output Voltage Range	16-55VDC	Input Surge Protection	Line-Neutral 2kV, Line & Neutral-Ground 2kV

### HotSpot Constant Power Programmable Battery Packs

Model Number	Max. Load for 90 Min	Capacity	Battery Voltage	Battery Type	RoHS	Recharge Time	Dimensions (L x W x H)
FHSBATL3-1.5-SD	5W	1500mAh	9.6V	LiFePO4	Compliant	12 hours	3.48" x 2.87" x 0.96"
FHSBATL3-3-SD	10W	3000mAh					4.39" x 2.92" x 1.30"
FHSBATL6-1.5L-SD	10W	3000mAh					9.13" x 1.63" x 0.97"
FHSBATL9-.6-SD	6W	1800mAh					7.52" x 1.87" x 0.79"
FHSBATT8-C3L-SD	10W	3000mAh		NiCd	Exempt	24 hours	9.25" x 2.11" x 1.21"



## HotSpot Constant Power LED Emergency Driver

Adds field-installable emergency capability to LED luminaires, including flat panels. Provides backup power for at least 90 minutes. The system is designed for flexibility, with multiple mounting options, a conduit feed, and an illuminated test switch.



### Specifications

Input Voltage	120-277V (UNV)	Ambient Temperature	0°C - 50°C
Output Voltage	20-50VDC	Output Type	Class 2
Surge Protection	Per C62.41 (TVS)	RFI/EMI	FCC Part 15A Non-Consumer
Recharge Time	24 Hours	Illumination Time	Minimum 90 minutes

### HotSpot Constant Power LED Emergency Drivers

Model Number	Output Power (W)	Output Lumens (lm) based on 160 lumens/watt light source	Output Current (mA)	Dimensions (L x W x H)	UL Classified	cULus Classified
FHSCP-UNV-5WL	5	800	100-250	11.5" x 2.6" x 1.5"	✓	
FHSCPUNV5WL-CEC*						✓
FHSCP-UNV-7.8WL	7.8	1250	156-390	15.4" x 2.6" x 1.5"	✓	
FHSCPUNV7.8WL-CEC*						✓
FHSCP-UNV-10.7WL	10.7	1700	214-535	15.4" x 2.6" x 1.5"	✓	
FHSCPUNV10.7WL-CEC*						✓
FHSCP-UNV-13.7WL	13.7	2200	274-685	19.2" x 2.6" x 1.5"	✓	
FHSCPUNV13.7WL-CEC*						✓
FHSCP-UNV-17WL	17	2700	340-850	19.2" x 2.6" x 1.5"	✓	
FHSCPUNV17WL-CEC*						✓

\* CEC Title 20 Compliant & cULus Classified



## HotSpot EZ Exit

The innovative alternative to traditional emergency fixtures. Linear LED strips mount seamlessly in standard T-grid ceilings, with constant power emergency drivers mounted out of sight on top of the grid. During power outages the system provides at least 90 minutes of reliable, hassle-free emergency lighting.



Normal conditions



Power outage- emergency LEDs activated

### Specifications

Input Voltage	100-277VAC, 50/60Hz	Output Type	Class 2
Recharge Time	24 Hours	Surge Protection	Per C62.41 (TVS)
Emergency Operation	90 Minutes	Protective Lens	1.2mm Frosted Polycarbonate V-0 Flame rated
Operating Temp. Range (Ta)	0°C to 50°C / 32°F to 122°F	Lens Transmittance	15%
Module Case Temperature (Tc)	Tc max 90°C / 194°F	PCB Material	FR4
Estimated Lumen Maintenance	L70: >60,000Hrs / L90: 40,000Hrs	Warranty	5 years from the manufacture date
RFI/EMI	FCC PART15A Non-Consumer		

### Product Models

Model Number	Max Input Current (A)	Nominal Input Power (W)	Output Power (W)	Module Operating Voltage (VDC)	Max Lumen Output(lm)	Battery	Dimensions (L x W x H)
FHEZ10A24	0.087	5.7	10.7	26.2	1480	NiCd 9.6Vdc	23.9" x 1.02" x 1.86"
FHEZ10A24-CEC*							
FHEZ17A48	0.11	7.9	17	25.8	2485	NiCd 14.4Vdc	47.9" x 1.02" x 1.86"
FHEZ17A48-CEC*							

\* CEC Title 20 Compliant

### EZ Exit System Includes:



FHEZ10A24, FHEZ10A24-CEC

24" EZ Exit Module and  
10.7W HotSpot Constant Power Emergency Driver

FHEZ17A48, FHEZ17A48-CEC

48" EZ Exit Module and  
17W HotSpot Constant Power Emergency Driver

2 Caddy clips  
2 Silver clips  
4 Screws  
10' Extension harness

Visit [Fulham.com](http://Fulham.com) for installation video and instructions





## Fluorescent Emergency Ballasts

- Wide range of lamp and ballast compatibility
- UL listed for damp locations
- CEC Title 20 Compliant models available
- Integrated LED power indicator/test switch



### Specifications

Operating Voltage	FH4: Dual 120 / 277V	Fixture Wiring	Switched or Unswitched
	FH7, FH11, FH12: UNV 120 - 277V	Minimum Emergency Operation	90 Mins.
Frequency	50/60Hz	Min. Required Charging Time	24 Hours
Regulatory Compliance	Meets or Exceeds N.E.C./LSC	Test Switch / Indicator	LED Push Button
Battery Type	High Temp.	Optional Wall Plate: FHSWLPWH	Used for remote mounting of test switch
	Long Life Rechargeable NiCd		

### FireHorse Ballast Models

Model Number	AC Input (W)	Standby Power Rating (W)	Max Charge Current (120VAC)		Battery Voltage (VDC)	Battery Rating (Wh)	Dimensions (L x W x H)	Weight (lbs)	Warranty (Yrs.)
FH7-UNV-500L-CEC*	3	0.7	50mA	30mA	6.0	12.0	9.60" x 2.16" x 1.13"	1.7	5
FH11-UNV-750L-CEC*	4	0.4	50mA	30mA	3.6	14.4	9.37" x 2.33" x 1.53"	2.0	
FH11-UNV-750L-CEC-A†	4	0.4	50mA	30mA	3.6	14.4	9.37" x 2.33" x 1.53"	2.0	
FH12-UNV-1400L-CEC*	4	0.7	60mA	40mA	12.0	24.0	14.58" x 2.17" x 1.23"	1.7	
FH4-DUAL-700L	2.4	N/A	270mA	250mA	3.6	14.4	9.40" x 2.40" x 1.50"	2.8	3

\* California Energy Commission Small Battery Charging Title 20 compliant

† Conduit feed

**FireHorse Lamp Operation | Also works with TLEDs.** Check lamp manufacturers' specifications for compatibility.

LAMP APPLICATIONS	FH4	FH7	FH11	FH12
<b>FT - 4 pin</b>				
FT18W		1	2	
FT24W			1 or 2	2
FT27W		1	1 or 2	
FT36W	1 or 2	1	1	1 or 2
FT39W		1	1	
FT40W	1	1	1	1
FT50W	1		1	
FT55W	1		1	1
<b>CFQ - 4 pin</b>				
CFQ13W		1	2	
CFQ18W		1		2
CFQ26W		1	1	2
<b>CFTR - 4 pin</b>				
CFTR13W		1	2	
CFTR18W		1	2	
CFTR26W		1	2	
CFTR32W		1	1	2
CFTR42W		1	1	
CFTR57W	1			
<b>Circular-FCRT5</b>				
22WCRT5	1 or 2	1	1	
40WCRT5	1 or 2	1		1
55WCRT5	1		1	
<b>Circular-FCRT9</b>				
32WCRT9		1	1	
40WCRT9		1	1	
<b>2D - 4 pin</b>				
2D21W		1		
2D28W	1 or 2	1	1 or 2	1 or 2

LAMP APPLICATIONS	FH4	FH7	FH11	FH12
<b>2D - 4 pin</b>				
2D38W	1	1	1 or 2	1 or 2
2D55W	1			
<b>T5-Standard</b>				
F14T5		1	1	2
F21T5	1 or 2	1	1	1
F28T5	1	1	1	1
F35T5	1		1	1
<b>T5-HO High Output</b>				
F24T5HO		1	1	2
F39T5HO	1	1	1	1 or 2
F49T5HO				1
F54T5HO (49W)		1	1	
F54T5HO	1	1	1	1
<b>T8- Standard</b>				
F17T8		1	2	2
F25T8	1 or 2	1	1 or 2	2
FB29T8				1
FBO31T8				1
F32T8 (25W)	1 or 2	1	1	
F32T8 (28W)	1 or 2	1	1	2
F32T8 (30W)	1 or 2	1	1	
F32T8 (32W)	1 or 2	1	1	1 or 2
FB32T8	1 or 2			
F32T8 ES (28W)	1 or 2			
F40T8		1	1	1
F58T8			1	1
F70T8			1	1
F51T8	1			
F59T8	1			

LAMP APPLICATIONS	FH4	FH7	FH11	FH12
<b>T8-HO High Output</b>				
F44T8HO	1			
F60T8HO			1	1
F72T8HO			1	1
F86T8HO	1			
<b>T8-SL Slim Line</b>				
F96T8SL				1
<b>T12-Standard</b>				
F20T12		1	2	2
F25T12	1 or 2			
F30T12	1 or 2		2	2
FB34T12	1 or 2	1 or 2		
F40T12	1 or 2		1 or 2	2
F40T12 ES (34W)	1 or 2	1 or 2		
F75T12, F85T12	1	1		
F85T12	1	1		
<b>T12-HO High Output</b>				
F48T12HO			1	
F60T12HO			1	1
F72T12HO				1
F96T12HO (95W)			1	
F96T12HO (110W)			1	1
<b>T12-SL Slim Line</b>				
F60T12SL			1	
F96T12SL			1	1

## Part Numbering Example

**FHEX21**

Series

**W**

Housing Color

**R**

Letter Color

**EM**

Operation

**SD**

Options

## Symbol Key



Damp Location Rated



Wet Location Rated



LED Heads



Remote Head Capability



Sealed Lead Acid battery type



NiCd battery type



Ni-MH battery type



Spanish Faceplate Available



New York approved



Chicago approved



Self-Test/Diagnostic option



CEC Title 20 Compliant



Accessories Page 18

## Emergency Lighting

Reliable, energy efficient emergency lights in a variety of styles and sizes

**FHEM10**

Series	Housing Color	Options
<b>FHEM10</b>	W = White, B = Black	H = High Lumen Reflector, W = Wet Location

Low profile, thermoplastic emergency lighting unit with adjustable LED lamp heads.

**FHEM10WHU**

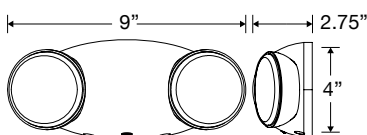
W = White

Blank = Damp Location, W = Wet Location

Low profile, thermoplastic emergency lighting unit with adjustable LED lamp heads. Universal voltage operation: 120-277VAC. High lumen reflectors, cULus listed, wet location version available.



## Dimensions



Damp Location Version

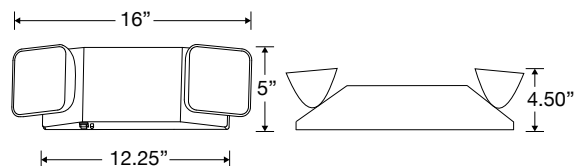


Wet Location Version

**FHEM11**

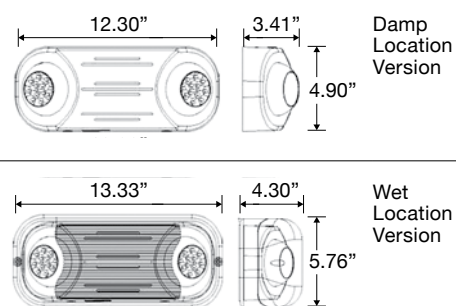
Series	Housing Color	Options
<b>FHEM11</b>	W = White, B = Black	SD = Self-Diagnostic, RC = Remote Capable

Contemporary, low profile, quick-installing emergency light with fully adjustable heads.

**FHEM12**

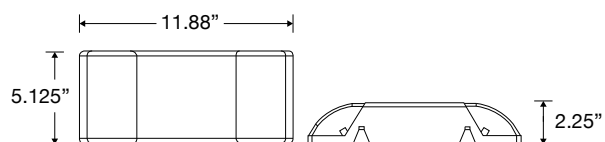
Series	Housing Color	Operation
<b>FHEM12</b>	W = White	Blank = Damp Location, W = Wet Location

Damp location rated LED emergency fixture (wet location model also available). UL Listed, Dual Voltage (120V or 277V). Maintenance-free 3.6V NiCd Battery, Push-to-Test Switch, adjustable glare-free heads, "snap fit" construction installs quickly. 90 min. emergency operation.

**FHEM13**

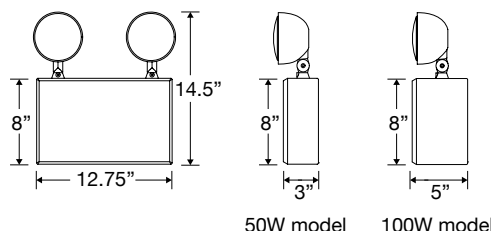
Series	Housing Color
<b>FHEM13</b>	W = White, B = Black

Low profile, compact emergency light with fixed optics provides a consistent, predictable aiming pattern for wall or ceiling mounting.

**FHEM14**

Series	Voltage	Output	Lamp Wattage
<b>FHEM141250</b>	12V	50W	2 x 9W
<b>FHEM1412100</b>	12V	100W	2 x 9W
<b>FHEM14650</b>	6V	50W	2 x 7.2W

High Capacity units with larger batteries to operate additional remote lamp heads or extended emergency operation. 12 Volt units are ideal for operating remote lamps with long runs, minimizing voltage drop issues.



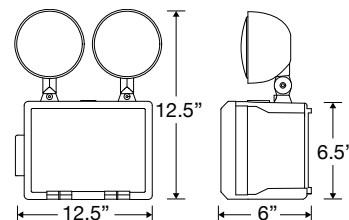
50W model 100W model

**FHEM15**

Series

**FHEM15**

Rugged, sealed and gasketed emergency units are ideal for wet or corrosive environments, providing resistance to dust, hose-downs, water spray and splashing water.

**FHEM16**

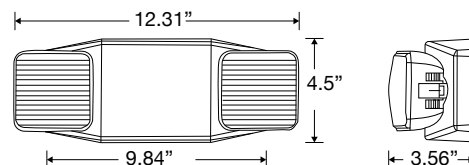
Series

Housing Color

Options

**FHEM16**W = White  
B = BlackSD= Self-Diagnostic  
RC=Remote Capable

LED, dual voltage (120V/277V) emergency fixture with NiCd battery that operates for 90 minutes in emergency mode. UL listed and damp location rated, available in white or black and with self diagnostic and remote capable options available.

**Accessories** Page 18**LED Exit Signs**

Dependable LED exit signs with slim profile and edge-lit options

**FHEX20 – Thermoplastic Micro LED**

Series

Housing Color

Letter Color

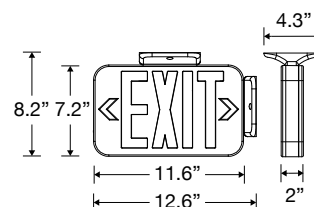
Operation

Options

**FHEX20**W = White  
B = BlackR = Red  
G = GreenAC = AC Only  
EM = Battery Back Up

RC = Remote Capable

Slim profile thermoplastic LED exit sign offers long lamp life, energy efficiency and uniform illumination in an economical package.

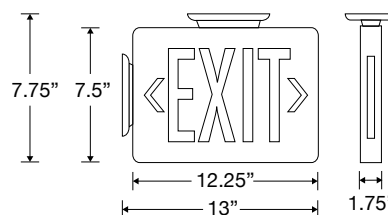




**FHEX21 – Thermoplastic LED**

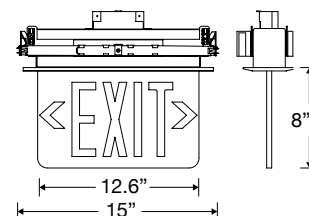
Series	Housing Color	Letter Color	Operation	Options
<b>FHEX21</b>	W = White B = Black	R = Red G = Green	AC = AC Only EM = Battery Back Up	SD = Self-Diagnostic (EM Only) DC = Dual Circuit (AC Only) SF = Spanish Faceplate

Thin-profile, thermoplastic LED exit sign offers long life, energy efficiency and uniform illumination in an economical package.

**FHEX23 – Recessed Edge Lit**

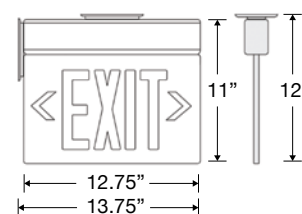
Series	Housing Color	# of Faces	Letter Color	Operation
<b>FHEX23</b>	A = Aluminum W = White B = Black	S = Single D = Dual	R = Red G = Green	AC = AC Only EM = Battery Back Up

Architectural LED Edge-Lit exit signs recess into the ceiling, offering superior aesthetic appeal.

**FHEX24 – Surface Edge Lit**

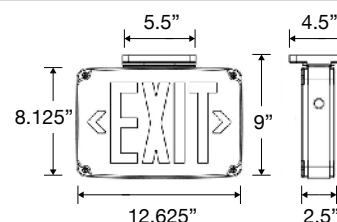
Series	Housing Color	# of Faces	Letter Color	Operation
<b>FHEX24</b>	A = Aluminum W = White B = Black	S = Single D = Dual	R = Red G = Green	AC = AC Only EM = Battery Back Up

Ideal for architectural applications, surface mount Edge-Lit LED exit signs offer specification-grade aesthetics with in-field installation flexibility.

**FHEX26 – Slim Wet Location LED**

Series	Letter Color	Options
<b>FHEX26</b>	R = Red, G = Green	RC = Remote Capable

Features a compact enclosure that is resistant to non-hazardous dust environments, corrosive atmospheres, hose-down water spray, or splashing water.





## Emergency Lighting / Exit Sign Combo

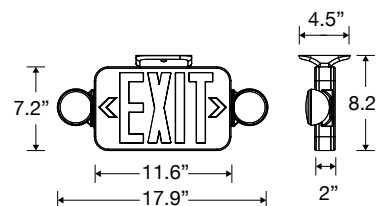
Versatile emergency light and exit sign combination units with remote head capability



### FHEC30 - Thermoplastic Micro LED Combo

Series	Housing Color	Letter Color	Options
FHEC30	W = White B = Black	R = Red G = Green	H = High Lumen Reflector

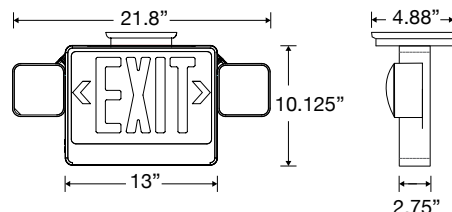
Energy-saving combination LED exit sign and emergency lighting unit in one compact, modern design.



### FHEC31 - Thermoplastic Square Head Combo 5.4W T5 Wedge Base

Series	Housing Color	Letter Color	Options
FHEC31	W = White B = Black	R = Red G = Green	RC = Remote Capable SF = Spanish Faceplate

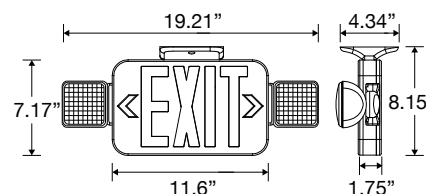
Energy saving combination LED exit sign and emergency lighting unit provides contemporary design, flexibility and multi-function capabilities.



### FHEC33 - Thermoplastic LED Combo

Series	Housing Color	Letter Color	Options
FHEC33	W = White	R = Red G = Green	RC = Remote Capable

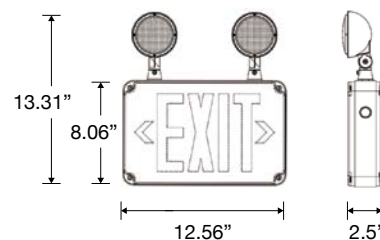
Injection molded, high impact, thermoplastic LED Exit Combo. Includes 2 factory-installed, adjustable square 12W high output LED heads.



**FHEC34 - Slim Wet Location LED Combo**

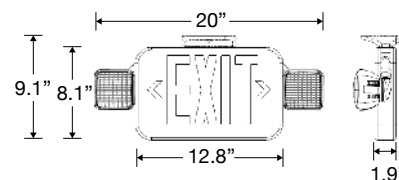
Series	Letter Color	Options
<b>FHEC34</b>	R = Red, G = Green	RC = Remote Capable

UL 924 listed for wet location. Includes two sealed and gasketed 1.17W weatherproof LED lamp heads. Features a compact enclosure that is resistant to non-hazardous dust environments, corrosive atmospheres, hose-down water spray, or splashing water.

**FHEC35 - Thermoplastic Slim LED Fully Adjustable Combo**

Series	Letter Color	Options
<b>FHEC35</b>	R = Red, G = Green	SD= Self-Diagnostic*, RC=Remote Capable*

Slim profile, thermoplastic LED Exit/Emergency Combo. Includes standard faceplate and fully adjustable LED lamp heads, all in a slender package.

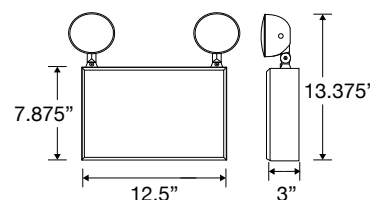


\*Options may be combined

**New York Approved Emergency Lighting / Exit Sign Combo****FHNY11**

Series	Description
<b>FHNY11</b>	9.6V, 3W, NiCd battery, two lamp heads

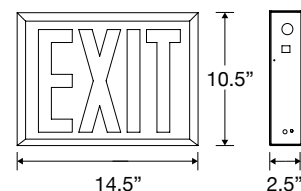
Steel emergency light with LED Heads designed for new or retrofit applications that need to meet New York City Standards. Ideal for hospitals, office buildings and schools.



**FHNY20**

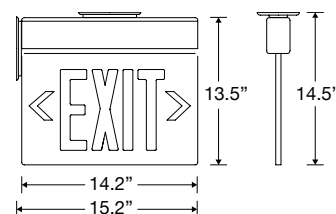
Series	Description
<b>FHNY20AC</b>	20-GA steel, white housing, universal face, red lettering, AC only
<b>FHNY20EM</b>	20-GA steel, white housing, universal face, red lettering, battery back up

8" Steel LED exit sign designed to New York City specifications.

**FHNY23**

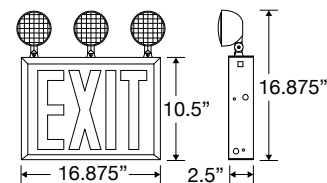
Series	Housing Color	# of Faces	Operation
<b>FHNY23</b>	A = Aluminum	S = Single D = Dual	AC = AC Only EM = Battery Back Up

8" Edge-lit exit sign designed to New York City specifications, provides superior aesthetics in a surface-mount design. Excellent LED performance and energy efficiency combined with infield installation flexibility.

**FHNY31**

Series	Description
<b>FHNY31</b>	Combo, 20-GA steel, white housing, single face, red lettering, Ni-MH battery, Three 9.6V, 3W LED lamp heads

Steel New York City approved LED exit sign and emergency unit combo with LED heads. Ideal for hospitals, office buildings and schools.







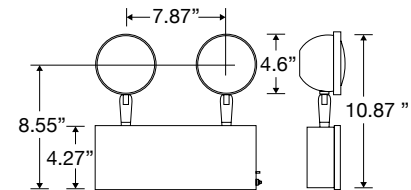
## Chicago Approved Emergency Lighting / Exit Sign Combo



### FHCH10

Series	Description
<b>FHCH10</b>	6V, 24W, sealed lead acid battery, two lamp heads

Steel emergency light designed for new construction or retrofit applications that must meet all City of Chicago listing requirements. Ideal for wall-mounted applications in stores, offices, hospitals and schools.



### FHCH21

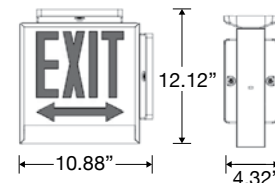
Series	# of Faces	Directional	Operation
<b>FHCH21</b>	S = Single D = Dual	NA = No Arrow DA = Double Arrow LA = Left Arrow RA = Right Arrow	AC = AC Only EM = Battery Back Up

#### Additional Faceplates

FHCHGONA = No Arrow  
FHCHGORA = Right Arrow  
FHCHGOLA = Left Arrow  
FHCHGODA = Double Arrow

FHCHGOST = Stairs  
FHCHGOSTRA = Stairs Right Arrow  
FHCHGOSTLA = Stairs Left Arrow

Heavy duty steel exit signs are Chicago approved. Ideal for applications such as schools, offices, retail and hospitals.





## Accessories

### Vandal-Resistant Shields

Model Number	FHEMVS	FHEXVS	FHECVS
Compatible with	FHEM10 FHEM11 FHEM13	FHEX20 FHEX21	FHEC30 FHEC31



FHEMVS\*



FHEXVS, FHECVS\*

### Wire Guards

Model Number	FHEMWG	FHEXWG	FHECWG
Compatible with	FHEM10 FHEM11 FHEM13	FHEX20 FHEX21	FHEC30 FHEC31



FHEMWG\*



FHEXWG, FHECWG\*

### Spanish Faceplates

Model Number	FHE30-20SFG	FHE30-20SFR
Compatible with	FHEX20 FHEC33	FHEC30 FHEC35

For FHEX21 and FHEC31, use option SF in part number



FHE30-20SFG



FHE30-20SFR

\*Fixture Not Included

### Remote Heads

	Model Number	Heads	Voltage	Watts/Head	Compatible with
Low Profile Thermoplastic	FHEM10-RH1-3V1	1	3.6V	1.72	FHEM16, FHEX20, FHEC33, FHEC35
	FHEM10-RH2-3V1	2	3.6	3.4	FHEM16, FHEX20, FHEC33, FHEC35
Thermoplastic	FHEM11-RH1-6V5	1	6V	5.4	FHEM11, FHEC31
Wet Location	FHEM12-RH1-3V1	1	3.6V	1.17	FHEX20, FHEX26, FHEC30, FHEC34
	FHEM12-RH2-3V1	2	3.6V	2.34	FHEX20, FHEX26, FHEC30, FHEC34
	FHEM15-RH1-6V7	1	6V	7.2	FHEM15
	FHEM15-RH2-6V7	2	6V	14.4	FHEM15
Low Profile Square Head	FHEM16-RH1-3V1	1	3.6	0.92	FHEM16, FHEX20, FHEC33, FHEC35
	FHEM16-RH2-3V1	2	3.6	1.84	FHEM16, FHEX20, FHEC33, FHEC35



FHEM10RH1



FHEM10RH2



FHEM11RH1



FHEM12RH1



FHEM12RH2



FHEM15RH1



FHEM15RH2



FHEM16RH1



FHEM16RH2



## Photoluminescent Exit Signs & Accessories

- LEED points qualified
- Manufactured in the United States
- Reduces emergency generator loads
- Meets low location egress requirements
- Flexibility of design
- No energy cost – Uses no electricity
- Stores and re-emits ambient light - minimum 5 foot candles required.
- No maintenance cost
- No disposal cost
- Reduces overhead costs
- Non-radioactive (Tritium free)
- Recyclable
- Lower labor and material cost
- No conduit or wire to run
- No emergency circuit required
- Standard bracket options for easy mounting



### FLPL50 - 50' Viewing Distance with Photoluminescent Lettering

Series	# of Faces	Background Color	Frame Color
FLPL50	S = Single D = Dual	G = Green R = Red SR = Brushed Aluminum w/ Red Letter Outline SG = Brushed Aluminum w/ Green Letter Outline	Blank = No Frame B = Black S = Silver Powder Coat W = White



### FLPL75 - 75' Viewing Distance with Photoluminescent Background

Series	# of Faces	Letter Color	Frame Color
FLPL75	S = Single D = Dual	G = Green R = Red	Blank = No Frame B = Black S = Silver Powder Coat W = White



### FLPL10 - 100' Viewing Distance with Photoluminescent Lettering

Series	# of Faces	Background Color	Frame Color
FLPL10	S = Single D = Dual	R = Red G = Green	Blank = No Frame B = Black



### Mounting Brackets for use with Framed Signs

Model	Description	Color
FLPLMB	For FLPL50 and FLPL75 signs	B = Black S = Silver W = White
FLPLMB10	For FLPL10 signs	

## Contact us

Visit **[www.fulham.com](http://www.fulham.com)** for product information, sales representative contact info, technical documentation, and more.

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