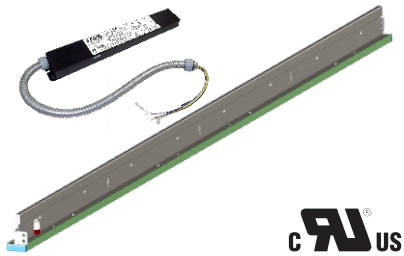
FULHAM FIREHORSE™



FHEZ17A48

48" EZEXIT EM T-Grid

- Universal mounting allows for installation with all types of T-Grid
- Universal Input 120-277VAC
- High Output integrated LED module; Powered by FHSCP EM driver
- Integrated Test Switch
- Ni-Cd Battery

General Specifications

Input Voltage [1]	120-277VAC
Input Current [1]	0.11A Max
Input Power (Nominal) [1]	7.9W
Operating Frequency	50/60Hz
Output Power [1]	17W (Constant) @ Emergency Mode
Max Lumen Output @ Emergency Mode	2485 lumens @ 5700K 80CRI
Battery Type	Ni-Cd 14.4Vdc
Battery Capacity Available	40.3Wh
Recharge Time	24 Hours
Emergency Operation	90 Minutes
Operating Temperature Range (Ta)	0°C to 50°C / 32°F to 122°F
Maximum Module Case Temperature (Tc)	Tc max 90°C / 194°F
Estimated Lumen Maintenance [2]	L70: >60,000Hrs / L90: 40,000Hrs
Overall Size	47.9” L x 1.02” W x 1.86” H
Weight	TBD
Packaging: Carton / Master Carton	xxpcs / xxpcs
Safety/Compliance	DC Module: cURus (File # E351548), TMU045012ELXXXB
	EM Driver: ULus Classified (File # E477042), FHSCP-UNV-17WL
	EZEXIT:
	Dry and Damp Location
RFI/EMI	FCC PART15A Non-Consumer
Output Type	Class 2
Surge Protection	Per C62.41 (TVS)
Protective Lens	1.2mm Frosted Polycarbonate V-0 Flame rated
Lens Transmittance	15%
PCB Material	FR4
Warranty	5 years from the date of manufacture

[1] Measured electrical data per UL file

[2] TM-21 Reported Numbers

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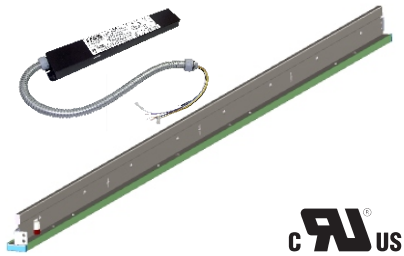

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Part Number Matrix

FH	EZ	17	A	48
Product Line FH = FireHorse	Model EZ = EZExit	Emergency Power **17** = 17W		Length **48** = 4ft Fixture

Electrical and Optical Specifications

EZEXIT Part Number	CCT / CRI	Input Power	Output Power @ Emergency	Lumen Output @ Emergency	Efficacy
FHEZ17A48	5700K / 80CRI	7.9W	17W	2485lm	146lm/W

Thermal Specifications

	EZEXIT Luminaire
Operating Ambient Temperature Range (Ta)	0 to 50°C / 32 to 122°F
Maximum Module Case Temperature (Tc)	90°C / 194°F

Module Case Temperature (Tc)	Luminous Flux Multiplier	Total Vf Multiplier
25ºC	1.000	1.000
30ºC	1.000	0.991
35ºC	0.997	0.982
40ºC	0.993	0.973
45ºC	0.993	0.964
50ºC	0.990	0.953
55ºC	0.987	0.944
60ºC	0.987	0.935
65ºC	0.984	0.926
70ºC	0.984	0.917
75ºC	0.980	0.908
80ºC	0.977	0.899
85ºC	0.977	0.889
90ºC	0.974	0.880
95ºC	0.970	0.862
100ºC	0.967	0.853

NOTES:

1) Performance based on Tc mod = 25°C. See thermal de-rating chart for higher temperature operation
2) Standard lumen output and efficacy is calculated for standard options. Reference CCT & CRI vs Luminous Flux chart for lumen ratio calculation.
3) Specifications are subject to change without notice.
4) The LED DC Module can be configure with different LED chip quantities, series and parallel design configurations to meet a specific design requirement. Contact Fulham for further assistance.
5) * Indicates maximum rated current. Modules may be operated at a current less than or equal to this value, below the Tc rating.

③ Standard Product offering (All other options are made to order with MOQ and lead time)

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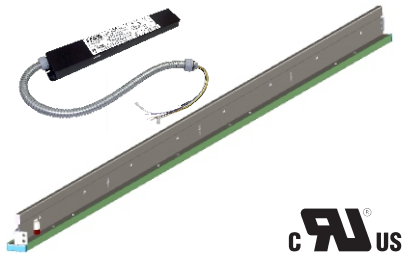

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Certification Chart

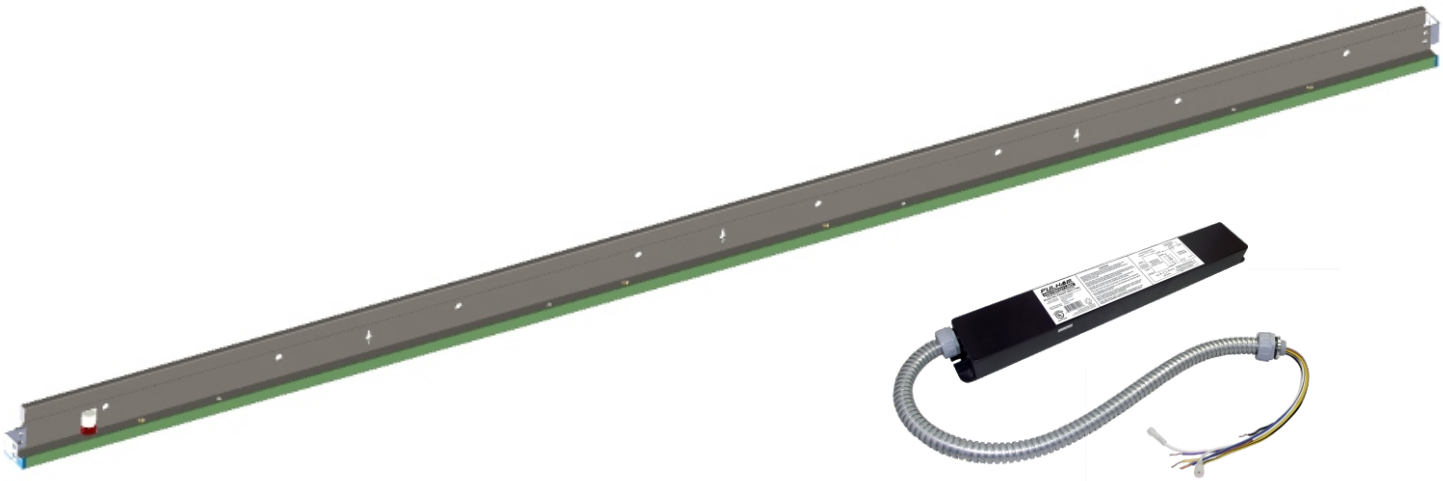
Model / Classification	FHEZEXIT10.7A24
c UL us	YES (DC Module)
CLASSIFIED UL	YES (EM Driver)
c UL us LISTED	Pending

Energy Star™ TM-21 Calculator Data

Tc Module	Reported L70	Reported L90
55°C	>54,000 Hrs	>54,000 Hrs
85°C	>54,000 Hrs	46,000 Hrs
105°C	>54,000 Hrs	40,000 Hrs

Tc Module	Calculated L70	Calculated L90
55°C	180,000 Hrs	54,000 Hrs
85°C	154,000 Hrs	46,000 Hrs
105°C	133,000 Hrs	40,000 Hrs

Product Image:



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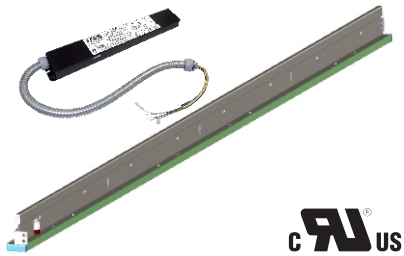
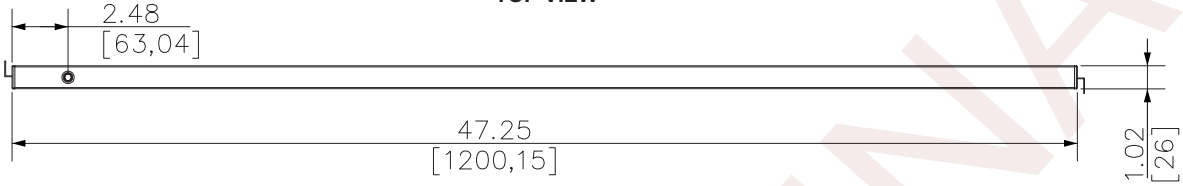


Mechanical Drawings

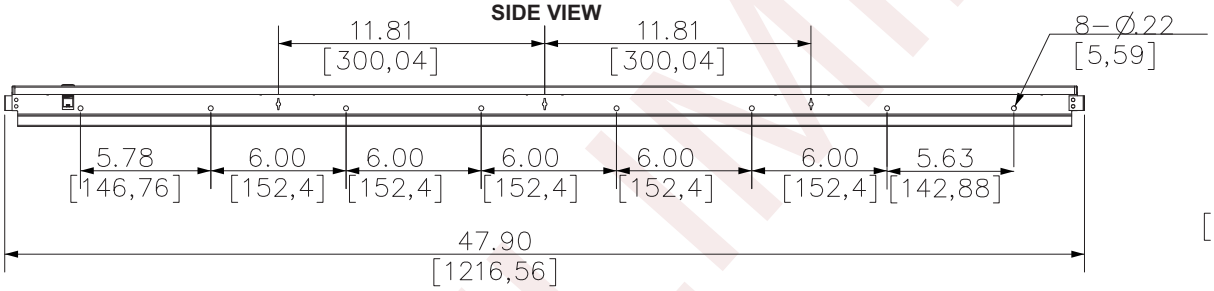
Scale 1:10

Overall Dimensions	
Length	47.9” [1216.6mm]
Width	1.02” [26.0mm]
Height	1.86” [47.2mm]

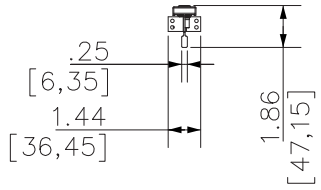
TOP VIEW

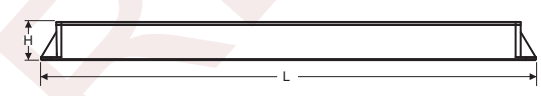


SIDE VIEW

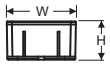


FRONT VIEW





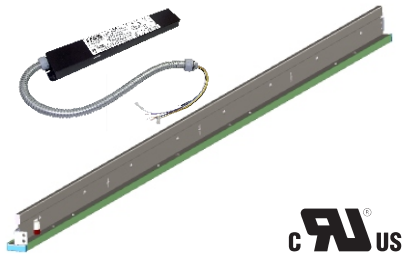
SIDE VIEW



FRONT VIEW

TOP VIEW

EM Driver Dimensions	
Length	19.19” [487.4mm]
Mounting Hole (C-C)	18.56” [471.4mm]
Width	2.63” [66.9mm]
Height	1.48” [37.6mm]



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Guidelines

Termination Notes

- Connector Type: WAGO #2059-302/998-403 (2 pin push wire connector)
  - AWG: 26...20 solid wire
  - Strip length: 6...7.5mm / 0.24...0.3in

Fastening Notes

- Use Nylon Snap Rivet to mount the DC Modules onto extrusion. Use all available screw holes to ensure good contact between back side of module and mounting surface. Suggested rivet sizes: R3545.

Part No.	Hole Dia. "G"	Panel Thick	A	B	C	D	E	Pull Force lb.(kg)
R3535	0.142-0.146 (3.6-3.7)	0.047-0.083 (1.2-2.1)	0.252 (6.4)	0.063 (1.6)	0.138 (3.5)	0.138 (3.5)	0.201 (5.1)	26.4 (12)
R3545		0.087-0.122 (2.2-3.1)			0.177 (4.5)		0.24 (6.1)	
R3550		0.106-0.142 (2.7-3.6)			0.197 (5.0)		0.24 (6.1)	
R3555		0.126-0.161 (3.2-4.1)			0.217 (5.5)		0.280 (7.1)	
R3560		0.146-0.181 (3.7-4.6)			0.236 (6.0)		0.280 (7.1)	
R3570		0.185-0.220 (4.7-5.6)			0.276 (7.0)		0.354 (9.0)	
R3580		0.224-0.260 (5.7-6.6)			0.315 (8.0)		0.354 (9.0)	

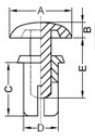
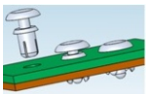


FIG 2



Environmental Rating

- The EZEXIT EM fixtures have been evaluated for use in dry or damp locations only. If used in wet locations, acceptability and the need for additional evaluation shall be determined in the end product.

Electrostatic Sensitive Product (ESD)

- Fulham LED products should be handled with proper measures to protect against any potential ESD damage.
- When servicing, personnel should be ground and direct contact with LED should be avoided.

Thermal Management

- Proper thermal management should be employed to ensure life and reliability of product. Max Tc of module should not be exceeded.

Polarity Notes

- DC Modules are polarity sensitive.
- Ensure that “positive” from EM Driver is connected to “positive” of LED modules and that “negative” from EM Driver is connected to “negative” of LED modules.
- Polarities of modules are marked with “+” for positive and “-” for negative.

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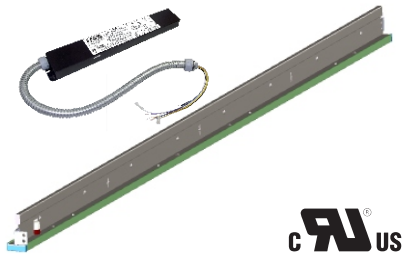
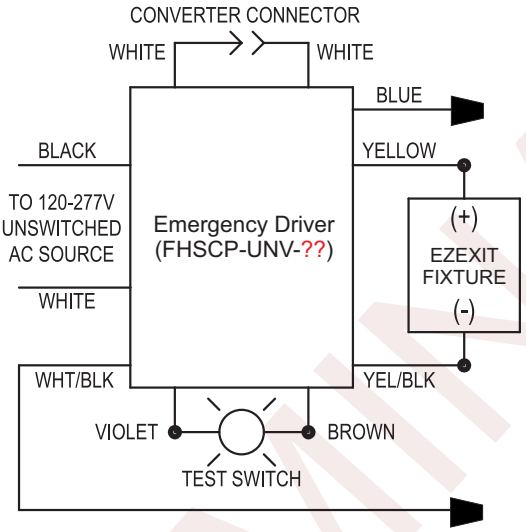


Wiring Diagram



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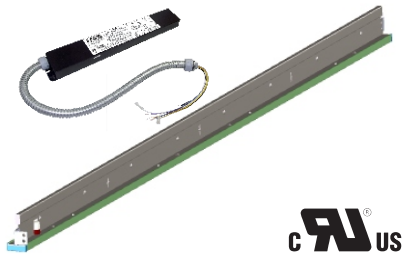
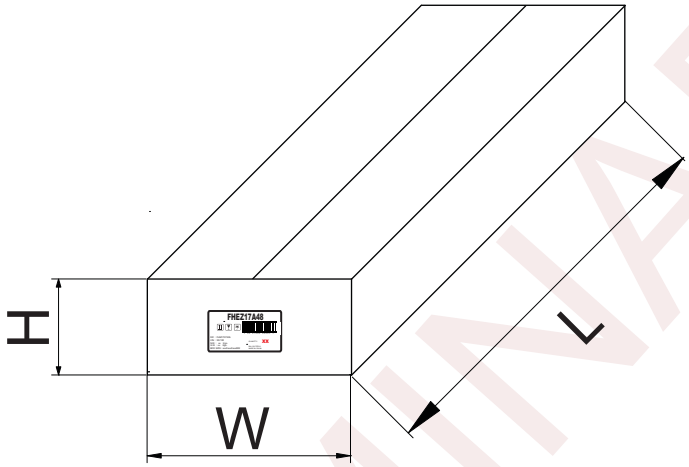


Packaging

Master Carton



xx Modules inside each Master carton.

OUTER DIMENSION		
L	W	H
TBD	TBD	TBD

Net Weight	Gross Weight	QUANTITY
TBD	TBD	xxpc.