



Freedom LED Series

ALUMINUM LED EXIT SIGN

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Architectural LED based exit and emergency light for wall, ceiling or end mounting commercial applications
- High impact, flame rated and UV stable white thermoplastic housing
- SW- Available with Special Wording
- 2C- 2 circuit operation
- FAP- Fire Alarm Panel
- FM- Flasher Module
- AF- Audible Flasher
- DC- Remote DC Operation
- 24K- 220-240VAC Input
- EV Unit Indoor Emergency Light



SPECIFICATIONS

APPLICATION

- The LED series is an architectural combination exit and emergency light designed for fast installation and reliable service
- The unit is available in single and double face models and is offered in six decorator finishes
- Includes a fully automatic, solid-state charger
- All emergency components mount inside the exit housing, 6 Volt, maintenance-free lead-acid battery, user-selectable constant on or flashing LED illumination in emergency mode

CONSTRUCTION

- The LED series housing and canopy is constructed of marine grade vinyl clad 5052-H32 aluminum
- The stencil face shield is made of vandal-resistant polycarbonate
- The sign comes in a choice of finishes including white, white with brushed face, black, black with brushed face, brass and antique brass

ELECTRICAL

- Unit provides a full 90 minutes of exit and emergency lighting
- Includes micro-controller based 3 stage constant current/constant voltage charger, and a long-life lithium iron phosphate(LiFePO₄) battery
- The LED series has a Vinyl clad, marine grade aluminum housing and stencil face assembly

INSTALLATION

- The LED Series mounts to 3 1/2", 4" octagon, or 4" square outlet boxes and standard plaster rings. It can also be wall mounted by use of back-plate via knockout pattern to an outlet box.

ILLUMINATION

- The LED Series provides bright, even illumination by using 108 red or green high-output LED's. The lamp has a rated life in excess of 20 years. Photometrics are available for download on the Dual-Lite website.

COMPLIANCES

- Listed to UL924 Standard
- NFPA 101
- NFPA 70
- Damp Location Listed Optional
- CEC T20 Compliant

WARRANTY

- LED Illumination Strip: 5-years full
- Unit and Electronics: 5-years full
- Battery: 1 year full, 9 years pro-rata (10 years total)

KEY DATA	
Lamp Color	Cool White
Total Lamp Output	88 Lumens per LED
System Efficacy	80lm/W
Rated Lifecycle	> 100,000hrs or 10 years
Input Current Range	
Standard:	120/277VAC, 50 or 60 Hz
Self Diagnostics Option:	220-240VAC, 50 or 60 Hz



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ORDERING GUIDE

Example: LED1EMRWW-TR

CATALOG #

LED						
Model	Faces	Operation		Letter Color		Finish
LED Freedom LED Exit Sign	1	Single	AC	AC Only	R	Red
	2	Double	EM	Emergency	G	Green
					WW	White
					WA	White with Brushed Aluminum face
					B	Black
					BA	Black with Brushed Aluminum Face
					TT	Brass
					ZZ	Antique Brass

Options	
FAP	Fire Alarm Panel Interface
TR	Tamper Resistant Screws ^{2,3}
BPR	Beeper Module ^{1,3}

- Accessories**
- VRS3 Vandal Resistant Shield
 - WGTCE Wireguard (ceiling/end mount)
 - WGTW Wireguard (wall mount)

- Notes:**
- 1 For use with emergency models only
 - 2 Operates with 24-volt AC or DC fire alarm panels.
 - 3 -BPR and -FAP options may not be specified together

ELECTRONICS

Emergency model includes maintenance-free nickel-cadmium battery with capacity to run the LED's for 90 minutes. 24 hour battery re-charge. All models supplied with a dual voltage input which accepts 120 or 277VAC. Includes pre-stripped AC input pigtail leads. Includes test switch, AC-on indicator and Red Battery Charge LED indicator.

Battery Type: Maintenance-free nickel-cadmium

AC: 120/277VAC, 60Hz (all models)

Operating Temperature Range: 10°C to 40°C (50°F to 104°F)

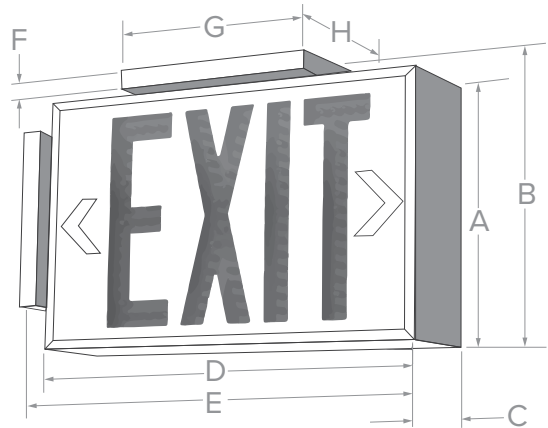
Power Factor, Average: .8 (lagging)

DISCHARGE TIME

Flashing Mode: 12 hours (single face), 8 hours (double face)

Constant-On Mode: 6 hours (single face), 4 hours (double face)

DIMENSIONS



A	B	C	D	E	F	G	H
7 1/2"	8"	3 1/8"	12 1/8"	12 5/8"	1/2"	6"	4 1/4"
19 cm	20 cm	7.9 cm	30.8 cm	32.1 cm	1.3 cm	15.2 cm	10.8 cm

POWER CONSUMPTION

Model	Single Face Models		Double Face Models	
	120VAC	277VAC	120VAC	277VAC
Red AC Only	3.00 watts	3.15 watts	6.80 watts	6.80 watts
Green AC Only	2.80 watts	2.94 watts	6.70 watts	6.70 watts
Red Emergency	3.17 watts	3.34 watts	7.27 watts	7.22 watts
Green Emergency	3.05 watts	3.00 watts	7.65 watts	7.67 watts

*Wattage figures include LED lamps, transformer and electronics power requirements.

ALT. FINISHES

