

Model Number: Accessories: Job:	Approvals:  Type:
---------------------------------------	-------------------------

**FEATURES**

- Enclosure constructed of rugged 20 gauge steel
- Solid 1/8" thick, vandal-resistant, polycarbonate lens
- Remote capabilities (6 volt) - up to 18 watts
- Low voltage disconnect eliminates deep discharge
- Brown-out, short circuit and voltage surge protection
- Overcharge protection
- Flasher/buzzer options to meet ADA regulations
- Maintenance-free lead acid battery
- Optional NiCad battery available
- Universal mounting - ceiling or wall mount
- ETL listed 90 minute emergency run time, 24 hour recharge time
- Constant, uniform illumination by long-life, high intensity, red or green LEDs
- Fully-illuminated 6" characters with 3/4" stroke
- Optional Guardian Self-Diagnostics available (G1)
- Chevron-style, universal arrows
- 120/277V dual primary, 60Hz input
- Standard finishes: Black or white
- Complete fixture series meets American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions



The 500 Series is the brightest most visible sign in the industry in both normal and smoke-filled environments. Constructed of durable 20 gauge steel, this direct view exit provides bright illumination with individual LEDs spelling the word EXIT.



**WARRANTY**

Any component that fails due to manufacturers defect is guaranteed for 25 years with a separate 5 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

**ORDERING INFORMATION** Example: 502-WB-WH-DR-C3-EL2A

Series	Power Source	Finish	Options (Factory Installed)	EL Option (Single Face Only)
502 = Red Single Face	LB = AC Only	WH = White	G1 = Self-Diagnostics	EL2A <sup>4</sup> = PAR36 White Thermoplastic
503 = Red Double Face	WB = With Battery	BL = Black	DL = Downlight	EL2B <sup>4</sup> = PAR36 Black Thermoplastic
G502 = Green Single Face	NC <sup>1</sup> = NiCad		DR = Damp Location Rated	EL2E <sup>4</sup> = PAR36 Chrome
G503 = Green Double Face			FL = Flasher	EL2F <sup>4</sup> = PAR36 White Aluminum
			BZ = Buzzer	EL2G <sup>4</sup> = PAR36 Black Aluminum
			FB = Flasher & Buzzer	EL0 = 18W Remote Capacity (No Lamps)
			A1 = Fire Alarm Interface w/FL Option	EL1 <sup>5</sup> = (1) Remote Lamp Head
			A2 = Fire Alarm Interface w/FB Option	REN-2 = (2) Renegade 3.6W LED Lamps
<b>Custom Color Faceplates</b> (Option "C")			2C11 <sup>2</sup> = 2 Circuit Input 120/120V	
C3 = Black Face w/Red Letters			2C17 <sup>2</sup> = 2 Circuit Input 277/277V	<b>Accessories<sup>6</sup></b> (Field Installed)
C4 = Black Face w/Green Letters			2C117 <sup>2</sup> = 2 Circuit Input 120/277V	TRHT-6H = Tamper Tool
C6 = White Face w/Red Letters			TF <sup>3</sup> = Extended Run Time Battery	ER1-KIT = 1' Pendant Mount Kit
C9 = Brushed Chrome Face w/Black Letters			TRH = Tamper Resistant Hardware	ER2-KIT = 2' Pendant Mount Kit
C10 = White Face w/Green Letters			C = Custom Color Faceplates	WG-1 = Wire Guard (Back Mount)
				WG-2 = Wire Guard (End Mount)
				WG-3 = Wire Guard (Ceiling Mount)
				WG-5 = Wire Guard EL w/Side Mounted Lamps (Back Mount)
				WG-6 = Wire Guard EL w/Top Mounted Lamps (Back Mount)
				XG-1 = Poly Guard (Back Mount)
				XG-3 = Poly Guard (Ceiling Mount)
				XG-EL90 = Poly Guard EL w/Side Mounted Lamps (Back Mount)
				XG-6 = Poly Guard EL w/Top Mounted Lamps (Back Mount)

<sup>1</sup> Not available with EL option  
<sup>2</sup> LB only, for use with inverter or generator applications only  
<sup>3</sup> Continuously flashes in emergency (DC) mode - not available with EL option  
 10800047 02/13

<sup>4</sup> Includes (2) 6V/5.4W PAR36 lamps  
<sup>5</sup> Consult factory  
<sup>6</sup> Order as separate line item

## CONSTRUCTION

Our specification grade 500 series enclosure, cover, face plate, and mounting canopy are 20 gauge galvanized steel with baked-on, powder coated paint. Face plate has 3/4" black letters with red or green LEDs. 1/8" polycarbonate shield protects LEDs from impact. \*Optional face plates are available

Stencil letters are 6" high with 3/4" stroke, with minimum of 100 ft viewing distance rating as required by UL924 standard.

## ILLUMINATION

Illumination of the 500 series is accomplished utilizing high-intensity, long-life LEDs exceeding UL 924 requirements for brightness and uniformity. Starting at only 4 watts, LEDs provide excellent, even illumination while maximizing energy efficiency. LEDs are a maintenance-free solution, providing up to 100,000 hours of use without failure.

## EMERGENCY LIGHTS - (Option: EL2(X))

Emergency lights are single or double face compatible with field-selected top or side mounting.

Choice of one or two 6 volt, 5.4 watt high intensity incandescent lamp heads. The 500 series is RENEGADE compatible - 3.6W LED per head.

Flashing LED display in emergency mode is standard with emergency lights.

**ELECTRICAL** Dual-voltage input 120 or 277VAC @ 60Hz.

### Sealed Lead Acid Battery - SLA (With Battery Only)

Exitronix sealed lead acid batteries are maintenance-free with a life expectancy of 5 years. Sealed lead acid batteries provide a relatively large power-to-weight ratio making them ideal for emergency applications. Lead Acid batteries are constructed of a series of plates stacked with separators designed to optimize the efficiency and prolong the life of the battery. Lead Acid batteries perform optimally in temperatures ranging from 15-40 degrees C.

### Sealed Nickel Cadmium Battery - NiCad (Option: NC)

Exitronix sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a vast temperature range from 0-40 degrees C. NiCad technology provides long lasting, safe and reliable performance by utilizing the jelly-roll design and allows a Ni-Cad cell to deliver a much higher maximum current than an equivalent size alternative battery. As a relatively larger area of the electrode is in contact with the active material in each cell, the internal resistance for an equivalent sized NiCad cell is lower which increases the maximum current that can be delivered.

### Brownout Circuit

The brownout circuit monitors the flow of AC current to the unit and triggers the emergency lighting system once a set reduction of AC power occurs. This dip in the voltage will cause many fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

### Low Voltage Disconnect

When the battery's terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

### Solid-State Transfer

The unit features a solid-state switching transistor which eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and automatically energizes the lamps. Upon restoration of the AC voltage, the emergency lamps will switch off and the charger will automatically recharge the battery.

### Overload and Short-Circuit Protection

The solid-state overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short-circuit is removed. This overload current protective characteristic eliminates the need for fuses or circuit breakers for the DC load.

### Test Button

Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency lamps.

## INSTALLATION

Installs in minutes with easy-to-read instructions and detailed diagrams. No special hardware or tools necessary. Internally housed components and battery eliminate the use of a canopy when back mounting single faced exits. Mounting canopy included.

## OPTIONS

### Made in the USA (STANDARD)

Many of our products can be produced or transformed to comply with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions. These fixtures meet LEVEL 1 compliance when option is requested - please call factory for details with questions.

### Damp Location Rated (Option: DR)

Damp location rating ensures the fixture is designed to operate safely in outdoor locations that are protected from the direct elements. Damp location rated fixtures may be installed indoors. Products with damp location ratings are not designed to withstand constant or significant moisture or direct contact with water or steam.

### Guardian Self-Diagnostic (Option: G1)

The Guardian circuit continuously monitors the operating condition of the battery charging circuit and battery supply voltage.

The purpose of this option is to provide visual signaling in response to a fault at the EXIT sign battery and/or battery charger. If a failure is detected, visual status will occur immediately via the CHARGER LED and/or the BATTERY FAULT LED. The LEDs will stay illuminated until the fault is corrected.

### Flasher (Option: FL)

When normal power is lost and the emergency unit goes into back up power mode, this unit will flash on and off - providing a highly visual signal as to emergency status.

### Audible Alarm (Option: BZ)

When normal power is lost and the emergency unit goes into back up power mode, this unit will buzz - providing a highly audible signal as to emergency status.

### Flasher & Audible Alarm (Option: FB)

When normal power is lost and the emergency unit goes into back up power mode, this unit will flash on and off while buzzing - providing a highly visual and audible signal as to emergency status.

### Fire Alarm Interface (Option: A1 or A2)

Our fire alarm interface option ties into the building's fire alarm system allowing for exits and emergency units to be triggered prior to loss of power.

A1: Fire alarm interface including Flasher option

A2: Fire alarm interface including Buzzer option

### Two-Circuit Operation (Option: 2CI, 2CI-1, 2CI-7)

Two circuit operation features for emergency lighting allows the dual input of power sources for units less battery (AC only).

The purpose of this feature is to provide the compatibility of our emergency units in applications where inverters or alternate back up power sources are utilized.

### Vandal Lens (Option: VL)

Providing a vandal lens to exit fixtures offers additional protection to the unit against intentional or unintentional abuse.

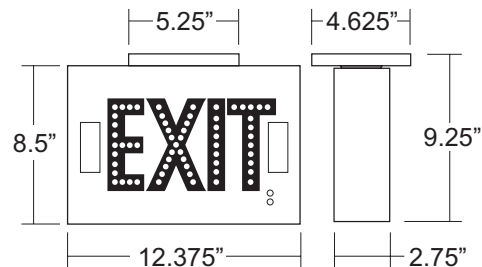
### Tamper Resistant Hardware (Option: TRH)

Tamper resistant hardware adds an additional layer of protection to the unit, preventing unwanted access to the interior of the unit or removal of the face plates.

## CONFORMANCE TO CODES & STANDARDS

The 500 Series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## DIMENSIONS



800.533.3948 • www.barronltg.com