

# LL60 Series

THERMOPLASTIC EMERGENCY LIGHTING UNIT

Model Number: Accessories: Job:	Approvals:  Type:
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**FEATURES**

- Completely self-contained
- Ultra-compact, low-profile design
- Each fixed lamp head contains 6 volt, 5.4 watt, high-intensity, tungsten (H.I.T.) lamps
- Rugged, injection-molded UL94 V-0 flame retardant, high-temperature thermoplastic housing
- AC lockout for ease of installation and installer protection
- Low voltage disconnect eliminates deep discharge
- Brown-out, short circuit and voltage surge protection
- UL recognized maintenance-free lead acid battery
- UL listed 90 minute emergency run time, 24 hour recharge time
- Universal J-Box mounting
- Standard finishes: Black and white
- 120/277V dual primary, 60Hz input



Combining an aesthetically appealing design and dependable performance, the LL60 series will accommodate virtually any application. This attractive series is complemented with the ruggedness and simplicity of a high impact totally universal thermoplastic housing.

**WARRANTY**

Any component that fails due to manufacturer's defect is guaranteed for 1 year 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: LL60-BL**

Series	Finish
LL60	BLANK = White
	BL = Black

## CONSTRUCTION

The LL60 is a precision molded unit with lamp housings constructed of UV stable UL 924 V-0 flame retardant, corrosion proof thermoplastic. Units resist denting, peeling, scratching and corrosion. Not recommended for outdoor use. Tool-less access provided for easy maintenance, universal J-box mounting pattern and keyhole slots provided for simple installation.

## ILLUMINATION

Illumination is accomplished utilizing high-intensity, long-life LEDs and consumes only 1 watt nominal power per head. LEDs provide excellent illumination while maximizing energy efficiency. LEDs are a maintenance-free solution, providing up to 100,000 hours of use without failure. Emergency lights consist of two 6 volt, 1 watt high intensity LED lamp heads.

## ELECTRICAL

### Input

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

### Sealed Lead Acid Battery – SLA

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.

### Emergency

The LL60 series exit will operate for a minimum of 90 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

### 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

Units are mountable in any orientation, on wall or ceilings. A universal mounting pattern and rear keyhole slots are provided.

## CONFORMANCE TO CODES & STANDARDS

The LL60 Series is UL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## DIMENSIONS

