

# PL505SC8

LOW PROFILE FLUORESCENT EMERGENCY BALLAST  
One lamp emergency illumination

## APPLICATION

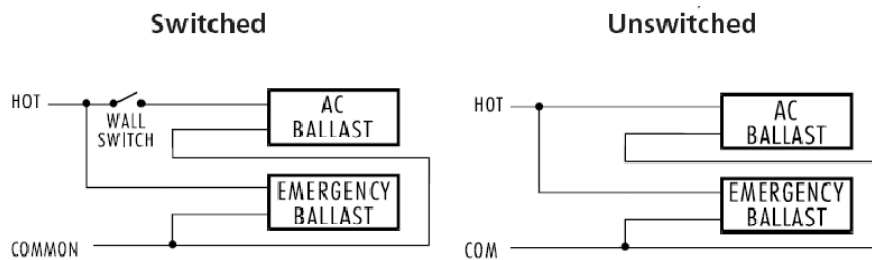
The PL505SC8 low-profile fluorescent emergency ballast works in conjunction with the AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact case. The PL505SC8 can be used with one (1) 14W-32W (2' - 4') T5 or T8 fluorescent lamps without integral starters. It is also compatible with most electronic and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. This ballast is not suitable for use in air handling heated air outlet fixtures, and wet or hazardous location fixtures. For information about specific lamp and ballast compatibility, please consult the factory. This ballast has additional features, such as time-delay enhancement and open circuit isolation that enables the emergency battery pack to function smoothly with 'End-of-Lamp-Life' circuitry in newer AC ballasts. This would provide an additional level of unit protection from over-voltage caused by an absence of lighting load.

## OPERATION

When AC power fails, the PL505SC8 immediately switches to the emergency mode, keeping one lamp illuminated at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the ballast automatically returns to the charging mode.

## INSTALLATION

The PL505SC8 does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The PL505SC8 may be installed inside or on top of the fixture. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C for extended periods.



Primary circuit only. Lamp leads not shown.

## UL and CODE COMPLIANCE

The PL505SC8 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

## BATTERY

Since high temperatures exist in fluorescent fixtures, the PL505SC8 uses a specially constructed, high-temperature nickel cadmium battery. This battery requires no maintenance, and has a life expectancy of 7 to 10 years.

NATIONAL BATTERY

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## EMERGENCY ILLUMINATION

The PL505SC8 produces 450 to 500 lumens initial emergency light output. During emergency illumination, one lamp is illuminated, even if installed with a multi-lamp AC ballast. Emergency lumen output will be less with a compact fluorescent lamp.

## SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with National Battery PL505SC8 emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel cadmium battery, charger and electronic circuitry contained in one 14.2" x 1.1" x 1.2" white metal case. A solid-state charging indicator light to monitor the charger and battery, a single-pole test switch, and installation hardware shall be provided. The emergency ballast shall be capable of operating one (1) 14W-32W (2' - 4') T5 or T8 fluorescent lamps without integral starters at reduced illumination in the emergency mode for a minimum of 90 minutes. The PL505SC8 shall produce 450 to 500 lumens initial emergency light output, have 2.5 Watts of input power, a 9 Watt-hour battery capacity, and comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation inside, on top of, or remote from the fixture, warranted for a full year from date of purchase, and made in the U.S.A.

## WARRANTY

Model PL505SC8 is warranted for three (3) full years from date of purchase. This warranty covers only properly installed National Battery emergency ballasts used under normal conditions. For the warranty period National Battery will, at its option, repair or replace without charge a defective emergency ballast, provided it is returned to the factory transportation prepaid, and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

## PRODUCT SUMMARY

<b>UL LISTED</b> Factory or Field Installation	<b>Dual Input Voltage</b> 120/277 VAC 60 Hz	<b>Battery</b> High-Temperature Maintenance-Free Nickel-Cadmium Battery 7 to 10 Life Expectancy	<b>Temperature Rating (Ambient)</b> 0°C to +55°C (32°F to 131°F)
<b>Illumination Time</b> 90 minutes	<b>AC Input Current</b> 127mA/120mA		
<b>Initial Light Output</b> 450 – 500 Lumens	<b>AC Input Power Rating</b> 2.5 Watts	<b>Battery Charging Current</b> 127mA/120mA	<b>Dimensions</b> 14.2" x 1.1" x 1.2" (360mm x 28mm x 30mm) Mounting center 13.5" (343mm)
<b>Full Warranty</b> 3 Years (NOT pro-rata)	<b>Test Switch</b> Single Pole	<b>Recharge Time</b> 24 Hours	<b>Weight</b> 1.4 lbs. (0.6 Kg)
		<b>Charging Indicator Light</b> LED	

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