

## The LNL-200XA Power Supply Unit (PSU)

The LNL-200XA is a high-efficiency and cost-effective power supply designed to house a Lenel controller and reader interface module in an OnGuard® system.

Featuring a regulated 13.8 VDC output, the LNL-200XA supplies continuous full rated current to load. Maximum battery life is assured using deep discharge protection to prevent premature battery failure when operating in standby mode for extended periods. Two sets of volt-free contacts are provided to signal (i) loss of mains and (ii) battery and loss of output faults.

The LNL-200XA can supply a continuous full-rated current to load plus an additional 0.5A for charging a 12V standby battery.

The universal mains input voltage enables the power supply to be used across a wide geographical area. The highly efficient switch mode design ensures low operating costs while generating less heat. The modular construction simplifies maintenance.

- Continuous full-rated current-to-load
- Universal mains input voltage 90-264 VAC
- High-efficiency electronics for reduced running costs and lower operating temperatures
- Mains transient protection circuit
- Lid and removal from wall tamper detection
- Installer-safe design with all high-voltage electronics fully shielded
- PCB supports and fixings supplied
- Houses an LNL-1300c Single Door IP Interface Module or an LNL-3210 Intelligent Single Door Controller and an LNL-1300 Single Reader Interface Module
- PSU status and diagnostic LEDs (mains present and fault)
- Volt-free contact signaling mains failure (EPS)
- Volt-free contact signaling output and battery faults (GEN)
- Full electronic short circuit and overload protection on load output under mains operation
- Individual battery and output fuse protection
- Three-year warranty

## Installation

This unit is only suitable for installation as permanently connected equipment. The PSU is NOT SUITABLE for external installation.

Before installation, ensure that the mains power source has a separate (approved) disconnect device that is fitted with a fuse or other over-current protection rated at 3 A maximum. Ensure that the disconnect device has the appropriate earth fault protection to the applicable standard.

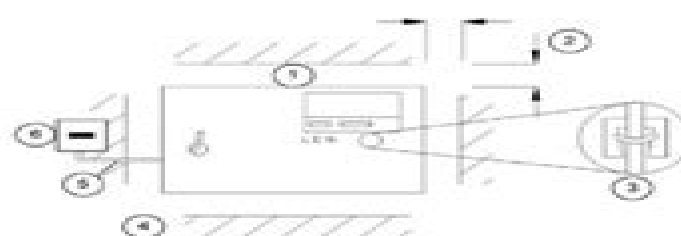
Before connecting the PSU to the mains power source, verify that the external disconnect device is OFF.

Install the PSU according to all relevant safety regulations applicable to the application. EQUIPMENT MUST BE EARTHED.

### Mounting

1. Mount the PSU securely in correct orientation allowing minimum clearance.

*Mounting the Power Supply*



Callout	Description
1	10 cm clearance minimum
2	Load output cable: current rating to match maximum load
3	Fasten cables using cable tie
4	Mains input cable rated: 3 A, 300 VAC minimum
5	3 A minimum
6	Fused spur

2. Route mains and low voltage output cables via different knockouts and/or cable entry holes.

**Note:** Use brushes and cable glands rated to UL94 HB minimum.

### Mains Power-up

1. Attach the appropriately-rated mains cable (minimum 0.5mm<sup>2</sup> [3A], 300/500 VAC) and fasten using cable ties.
2. Apply mains power. Check for 13.8 VDC on load outputs. Ensure that the green Mains LED is on.
3. Disconnect mains power.

### Load Output

1. Attach the appropriately-rated load cable and fasten using cable ties. Note polarity.
2. Apply mains power. Check green Mains LED is on.

**Note:** The red LED on the PSU may flash to indicate that no battery has been connected. This is normal.

3. Verify load is operating correctly.
4. Disconnect mains power.

### Signaling

1. Connect EPS and GEN fault outputs to appropriate inputs of control and indicating equipment (CIE).

### Standby Battery

1. Attach supplied battery cables to terminal block and battery.

**Note:** Ensure correct polarity of battery connections: +ve use **red** lead, -ve use **black** lead.

# Lenel Owner Manual

**Camilla Rothe**



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## **Table of Contents Lenel Owner Manual**

1. Understanding the eBook Lenel Owner Manual
  - The Rise of Digital Reading Lenel Owner Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Lenel Owner Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lenel Owner Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lenel Owner Manual
  - Personalized Recommendations
  - Lenel Owner Manual User Reviews and Ratings
  - Lenel Owner Manual and Bestseller Lists
5. Accessing Lenel Owner Manual Free and Paid eBooks
  - Lenel Owner Manual Public Domain eBooks
  - Lenel Owner Manual eBook Subscription Services

- Lenel Owner Manual Budget-Friendly Options
- 6. Navigating Lenel Owner Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Lenel Owner Manual Compatibility with Devices
  - Lenel Owner Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lenel Owner Manual
  - Highlighting and Note-Taking Lenel Owner Manual
  - Interactive Elements Lenel Owner Manual
- 8. Staying Engaged with Lenel Owner Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lenel Owner Manual
- 9. Balancing eBooks and Physical Books Lenel Owner Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lenel Owner Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lenel Owner Manual
  - Setting Reading Goals Lenel Owner Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lenel Owner Manual
  - Fact-Checking eBook Content of Lenel Owner Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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