

# PowerHOUSE™ Power Distribution Units (PDUs)

User Manual



## Introduction

The PowerHOUSE™ line of Power Distribution Units (PDUs) meet stringent requirements for either indoor or outdoor site applications. This user manual reviews the proper use of the wide range of locking and non-locking inlet, feed-thru and receptacle versions available. Please take time to review all precautions and warnings in the manual prior to making the proper connections for use. Store this manual in a safe location for future reference.

## Unpacking and Inspection

Before you begin your installation check the shipment carefully to confirm it arrived complete and undamaged.

1. Check the contents against the packing list to ensure the devices are the correct models
2. Check the unit for loose or broken components, which might have resulted from shipping
3. Inspect for signs of damage to wiring devices or circuit breakers

If there is any damage to the PowerHOUSE™ PDU, contact Lex Products toll free at (855) 539-1002 or email support@lexproducts.com.

## PowerHOUSE™ PDU Components (Typical)



## Setting Up PowerHOUSE™ Power Distribution Units (PDUs)

### Step 1: Locating PDUs

- The PowerHOUSE™ PDUs are designed to be used in indoor or outdoor locations
  - Review labels attach to enclosure for rating
  - 'TYPE 1' indicates Indoor use only, 'TYPE 3R' indicates either Indoor or Outdoor use
- Each PowerHOUSE™ PDU should rest on its own base on a level surface with suitable ventilation
- **DO NOT** locate any PowerHOUSE™ PDU in any area prone to standing water

### Step 2: Making and Breaking Connections on PDUs



#### WARNING:

- Before making or breaking connections to any PowerHOUSE™ PDU make certain the power source feeding the system is **OFF**
- **DO NOT** exceed the voltage rating of the device as identified on the label attached to the enclosure

**NOTE:** If using the feed thru feature, connect the feed thru **BEFORE** the input connection is made

- Single-pole Cam Connectors
  - When **MAKING** the connection, begin with the **GREEN** ground connection, then the **WHITE** neutral connection and finish with the remaining **HOT** connections
  - Firmly insert cam device into connector and rotate clockwise until fully engaged and locked
  - When **BREAKING** the connection, begin with the **HOT** connections, then the **WHITE** neutral connection and finish with the **GREEN** ground connection
- NEMA Locking Connector
  - Fully insert the female connector into the male inlet
  - Turn connector clockwise until it is fully locked
- LSC 19 Multi-pin Connector
  - Align female connector with male inlet and insert, ensuring connection is fully seated
  - Spin the locking collar of male inlet until snug
- NEMA Straight Blade Connections
  - Fully insert the male plug into the female receptacle

### Step 3: Powering Up PDUs

- Best practices dictate that loads are applied gradually the first time the system is set up

**NOTE:** PowerHOUSE™ PDUs are shipped with breakers in the 'O/OFF' position

1. Turn on the power source
2. Beginning with the PDU closest to the power source, move the first individual circuit breaker to the 'I/ON' position
3. Ensure the devices fed by that circuit are ON, tracing the electrical path to the final device fed by that circuit
4. Repeat steps 2 and 3 for the remaining circuit breakers

**NOTE:** If the circuit breaker cannot be energized or trips, check the system for continuity, short circuits and overload, and make the necessary corrections before proceeding

# Troubleshooting Guide

If there is no power at receptacles:

1. Ensure that connections are in place and tight
2. Ensure that power source is live
  - a. Activate if not on
3. Ensure that circuit breakers are 'I/ON'
4. If a circuit breaker trips, identify source of short circuit or overload and correct before resetting circuit breaker
  - a. Check to see if the circuit is overloaded and reduce loads as needed
  - b. Check for short circuits in the cabling or load device and correct as needed
5. For those receptacles that include a GFCIs:
  - a. Ensure the GFCIs are set by pressing the 'RESET' button
6. If a GFCI trips, identify source of current leakage and correct before resetting the GFCI
  - a. Check to see if the circuit is overloaded and reduce loads as needed
  - b. Check for short circuits in the cabling or load device and correct as needed
7. If there is still no power at receptacles:
  - a. Remove PDU from use
  - b. Contact Lex Products for next course of action

## Technical Support

Lex Products is available to help answer any product related inquiries. For any questions or technical advice, please call toll free 800-643-4460 or email [info@lexproducts.com](mailto:info@lexproducts.com).



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