200REI WIRING DIAGRAMS (1)



CAUTION: Do not mate unit connector until installation is complete and AC power is supplied

- 1. The 200REI requires an unswitched AC power supply of 120-277 volt, 50/60 Hz.
- 2. Refer to the wiring diagrams below. Make connections in the following order: 1234567
- 3. Consult the factory for other wiring diagrams.

(200REI) WIRING DIAGRAM FOR 0-10V DIMMABLE EMERGENCY LIGHTING SYSTEM



(200REI) WIRING DIAGRAM FOR NON-DIMMABLE EMERGENCY APPLICATION, FULL LIGHT OUTPUT



200REI USER MANUAL

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200REI WIRING DIAGRAMS (2)



CAUTION: Do not mate unit connector until installation is complete and AC power is supplied

- 1. The 200REI requires an unswitched AC power supply of 120-277 volt, 50/60 Hz.
- 2. Refer to the wiring diagrams below. Make connections in the following order: 1234567
- 3. Consult the factory for other wiring diagrams.

(200REI) WIRING DIAGRAM FOR NON-DIMMABLE EMERGENCY LIGHTING SYSTEM, WITH DIMMED LUMINARES



Alternate Wiring for High Power Loads

Wiring Diagram for Non Dimmable applications where the Luminaire(s) are rated higher than the inverter power. MUST connect inverter Dim out leads to AC driver(s) Dim input leads. This allows a high power luminaire to operate with less Emergency Power.

200REI OPERATING / TESTING / MAINTENANCE

OPERATION

When AC power is applied, the LED test switch is illuminated, indicating that the batteries are being charged. When AC power fails, the 200REI automatically switches to emergency power, operating the lighting load at rated emergency power. During power failure, the LED test switch indicator will be off. When the AC power is restored, the 200REI switches the system back to normal mode of operation and resumes battery charging. The minimum emergency operation time is 90 minutes. Ashort term discharge test may be conducted after unit has been charging for 1 hour. Charge for 24 hours before conducting a long term discharge test. Refer to page 2 for Emergency Dimming applications.

TESTING AND MAINTENANCE

The following Periodic testing is recommended to ensure the system is working correctly.

- 1. Visually inspect the LED test switch (LTS) monthly. It should be illuminated when AC power is applied.
- 2. Conduct a 30-second discharge test by switching off the emergency breaker every month. The LTS will be off.
- 3. Conduct a 90-minute discharge test once per year. The LTS will be off during the test.

AUTO TEST

The 200REI Nano Inverter has an Auto Test feature which saves costs by reducing the need for manual testing.

1. Initial Auto Test

When the system is connected properly and powered on (make sure the load is switched on), the 200REI will perform an initial Auto Test. If any abnormal conditions exist, the LTS will blink quickly. Once the abnormal condition is corrected, the LTS will function correctly. The initial Auto Test will be restarted automatically when the connected dimmable loads maximum power increases.

2. Preprogrammed Scheduled Auto Test

a) The unit will conduct the first Monthly Auto Test after 24 hours and up to 7 days after initial power on.

Then monthly tests will be performed every 30 days.

b) Annual Auto Test It will occur every 52 weeks after the initial power on.

Monthly Auto Test:

The Monthly Auto Test shall be exectuted every 30 days, and will test:

Normal to emergency transfer function, emergency, charging and discharging conditions are normal.

Monthly test time is approximately 60 seconds.

Annual Auto Test:

Annual Auto Test will occur every 52 weeks after the initial 24 hours full charge, and will test:

Proper initial battery voltage, 90-minute emergency operation and acceptable battery voltage at the end of the full 90-minute test.

If the Auto Test is interrupted by a power failure, a full 90-minute Auto Test will occur again 24 hours after the power is restored. If the power failure causes the battery to fully discharge, the product will restart the Initial Auto Test and Preprogrammed Scheduled Auto Test.

MANUAL TEST

1. Press the LTS one time to simulate emergency mode for 10 seconds.

2. Press the LTS 2 times continuously within 5 seconds to force a 60-second monthly test. After the test is completed, the next (30-day) monthly test will count from this date.

3. Press the LTS 3 times continuously within 5 seconds to force a 90-minute annual test. After the test is completed, the next (52-week) annual test will count from this date. Note - unit must be 24-hour fully charged.

4. In Normal mode, press and hold the LTS for greater than 3 seconds to restart initial Auto Test.

5. During any manual test, press and hold the LTS fro greater than 3 seconds to terminate a manual test.

The Preprogrammed Scheduled Auto Test will not change.

LED TEST SWITCH CONDITIONS

LTS Slow Blinking: Normal Charging

LTS On: Battery Fully Charged - Normal Condition

LTS Off: Power Failure

LTS Gradual Change: In Testing Mode

LTS Quickly Blinking: Abnormal Condition - Corrective Action Required