







# OPERATION/ TESTING/ MAINTENANCE

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MIP-36 automatically switches to emergency power, operating the lighting load at rated emergency power. During power failure, the LED test switch will be off. When the AC power is restored, the emergency MIP-36 switches the system back to normal mode of operation and resumes battery charging. The minimum emergency operation time is 90 minutes. A short 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.

## TESTING AND MAINTENANCE

The MIP-36 is equipped with a Self-Test function that performs the required monthly and annual tests. To verify the product status is operational conduct a visual inspection of the LTS (LED Test Switch) every 30 days. If the LTS blinks rapidly an abnormal condition exists, correct or replace unit as necessary.

### SELF TEST STATUS

On initial power on or after a battery reset, if the SELF-TEST is enabled (DEFAULT), the LTS (LED Test Switch) will blink 3 times (on 0.3 seconds and off 0.3 seconds), and then stay off for 2 seconds. The LTS will return to normal mode (slow blinking during charging, on after fully charged); If the SELF-TEST is disabled, the LTS will blink 6 times (on 0.3 seconds and off 0.3 seconds) and then stay off for 2 seconds. The LTS will return to normal mode (slow blinking during charging, on after fully charged).

### Disabling/Enabling SELF-TEST:

During normal operation, press the LTS 5 times within 3 seconds. If the SELF-TEST was previously enabled, the signal light will blink 6 times (on 0.3 seconds, off 0.3 seconds) and then stay off for 2 seconds. After 3 cycles of this display, the LTS will return to normal mode (slow blinking during charging, on after fully charged), and the SELF-TEST will be disabled. If the SELF-TEST was previously disabled, the LTS will blink 3 times (on 0.3 seconds and off 0.3 seconds) and then stay off for 2 seconds. After 3 cycles of this display, the LTS will return to normal mode (slow blinking during charging, on after fully charged) and the SELF-TEST will be enabled.

The MIP-36 has an SELF-TEST feature which saves cost by reducing the need for manual testing (DEFAULT).

#### 1. Initial Self-Test

**When the system is connected properly and powered on, the MIP-36 will perform an initial Self-Test. If any abnormal conditions exist, the LTS will blink quickly. Once the abnormal condition is corrected, the LTS will function correctly.**

#### 2. Preprogrammed Scheduled Self-Test

**a) The unit will conduct the first Monthly Self-Test after 24 hours and up to 7 days after initial power on. Then monthly tests will be performed every 30 days.**

**b) Annual Self-Test will occur every 2 weeks after initial power on.**

#### Monthly Self-Test

**The Monthly Self-Test shall be executed every 30 days, and will test Normal to emergency transfer function, emergency, charging and discharging conditions are normal. Monthly test time is approximately 30 seconds.**

#### Annual Self-Test

**Annual Self-Test will occur every 2 weeks after the initial 24 hours full charge, and will test Proper initial battery voltage, 0-minute emergency operation and acceptable battery voltage at the end of the full minute test.**

**If the Self-Test is interrupted by a power failure, a full 0-minute Self-Test will occur again 24 hours after the power restored. If the power failure causes the battery to fully discharge, the product will restart the Auto-Test and Preprogrammed Scheduled Auto-Test.**

## MANUAL TEST

**1. Press the LTS 2 times continuously within 3 seconds to force a 60-second monthly test. After the test is completed the next (30-day) monthly test will count from this date.**

**2. Press the LTS 3 times continuously within 3 seconds to force a 0-minute annual test. After the test is completed the next (2-week) annual test will count from this date.**

**3. During any manual test, press and hold the LTS for greater than 3 seconds to terminate a manual test. The Preprogrammed Scheduled Auto-Test time 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**

## PRESET DIMMING TECHNOLOGY

**The MIP-36 utilizes customized preset dimming technology which allows for multiple 0-10 VDC controlled dimmable luminaries up to 360W (for MIP-36) to automatically adjust and shares the total 36W (for MIP-36) emergency power evenly between 2 or more luminaries. The luminaries must be controlled by a single (0-10VDC) dimming control device. When non-dimmable loads are used, the normal and emergency output will be limited to a max. of 36W (for MIP-36).**