

LED Emergency Lights

ORTECH

Instruction Manual

MODEL OE-216-150W



WARNING

WARNING — THE INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.

1. LED Emergency Lights are for INDOOR USE ONLY
2. Please keep the LED Emergency Lights away from any corrosive substance, and please use dry cloth when you clean it
3. LED Emergency Lights can only be installed by a qualified electrician
4. Before installation or maintenance, please disconnect the power to prevent electric shock

Application Notice

1. DO NOT let power cords touch hot surfaces. DO NOT install near gas or electric heaters
2. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering
3. The use of accessory equipment not recommended by manufacturer may cause an unsafe condition and will void the unit's warranty
4. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes.
If acid is spilled on skin or eyes, flush with fresh water and contact a physician immediately
5. DO NOT use this equipment other than for its intended purpose.

CAUTION

PLEASE READ INSTRUCTION BEFORE COMMENCING INSTALLATION AND RETAIN FOR FUTURE REFERENCES.

Electrical products can cause death or injury, or damage to property.

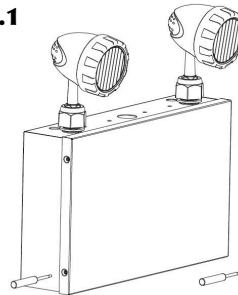
If in any doubt about the installation or use of this product, consult a competent electrician.

INSTALLATION GUIDE

Hardwired Installation

1. Extend non-switched 24 hour AC supply of rated voltage to a junction box (supplied by others) installed in accordance with all applicable codes and standards. Leave a minimum of 8 inches of slack on the wire. This circuit should NOT be energized / live at the same time
2. Open the unit by unscrewing the cover screws on the sides of the unit. The front cover can then be removed
3. Unit is supplied with universal spider knockouts and keyhole slots stamped into the back of the cabinet. Knock out the appropriate hole(s) and bring wires through the hole(s) into the cabinet
4. Make proper wiring connections between the AC supply and the unit's transformer (see the wiring diagram on the bottom right). Insulate unused wire. Connect ground to supplied ground wire in accordance with local codes. Reassemble all wire connections and connectors. Failure to insulate unused wire may result in a shock hazard or unsafe connection as well as equipment failure
5. Batteries on larger units may be shipped separately to avoid damage in shipping. Install batteries into the cabinet and complete the appropriate battery connections (see Fig.2 on the top right)
6. Batteries already installed in the cabinet MUST be connected to the circuit board

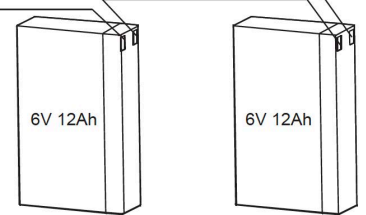
Fig.1



Red+

Fig.2

Black-
Battery



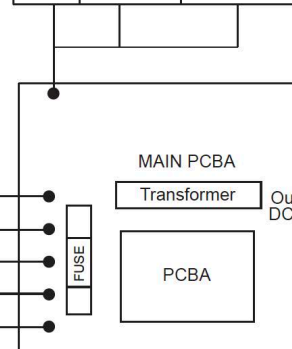
WIRING DIAGRAM

AC120V 60Hz
AC277V 60Hz
AC 347V 60Hz

AC WIRING

Black Wire(120V)
Yellow(277V)
Red(347V)
White Wire(N)
Green Wire(E/G)

TEST Red led (charge) Green led (AC ON)



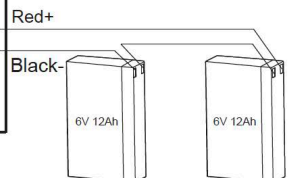
Max Remote Load

- 150W at 30 mins battery backup time
- 65W at 90 mins battery backup time
- 45W at 120 mins battery backup time

**ATTENTION!!
WORKING VOLTAGE:12VDC**

▽ Lamp Head

Lamp1 Lamp2 LAMP/N
2*2W/LED 150W/LED*

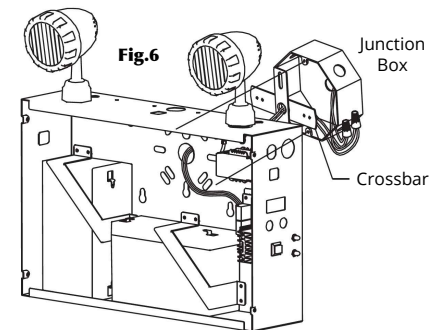
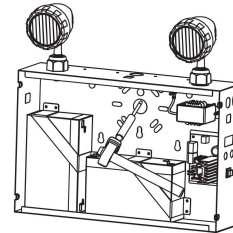
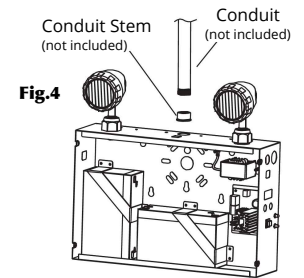
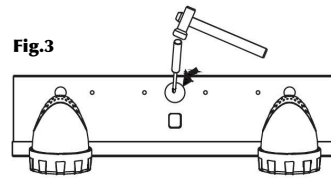
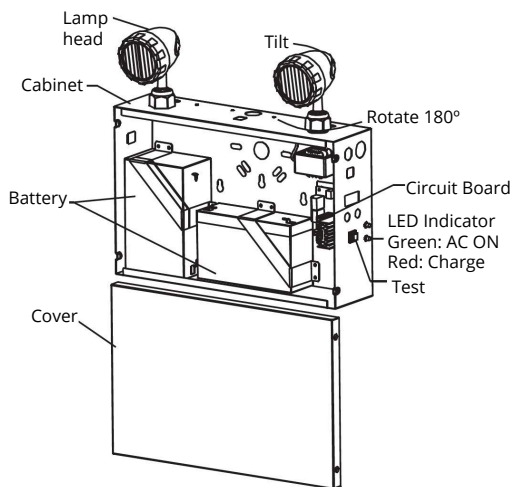


MODEL OE-216-150W

INSTALLATION GUIDE

Hardwired Installation

7. Secure all internal wires and replace cover and secure cover screws
8. Turn ON AC line voltage supply
9. If the unit is supplied with a line cord, connect the line cord plug into the appropriate receptacle previously installed
10. If unit is complete with lamp heads, positioning the lamp heads to provide best lighting distribution by loosening head set screws to adjust angle and swivel. Manually rotate or turn head(s) to the desired position then tighten set screws to lock position



IMPORTANT

Circuit feeding unit **MUST** be protected by lock-on breaker if breaker feeding this unit does not have a lock-on device (warranty will be voided if this is the case)

CAUTION

This equipment is furnished with a sophisticated low voltage battery dropout circuit to protect the battery from over-discharge after the useful output has been used. Allow 24 hours recharge time after installation or power failure for full-load testing or usage.

OPERATION & MAINTENANCE

Operation

1. To test, depress the TEST switch. Charge indicator will go out and the DC lamps will come on
2. Release the TEST switch. DC lamps will be extinguished and the charge indicator will come on
3. A bright charge LED indicator light indicates a high charge rate. After the battery has reached full charge, the indicator light will go out. Under normal operation, the high charge indicator will turn ON and OFF intermittently while the unit is in standby mode (regular AC is present) since the charge rate will vary in order to maintain an optimal battery performance

Maintenance

1. Code requires that the equipment be tested every 30 days for 30 seconds and that written records be maintained for all test results and repairs. Further the equipment is to be tested once a year for the required duration as per Code. The battery is to be replaced or the equipment repaired whenever the equipment fails to operate as intended during the duration test. The manufacturer strongly recommends compliance with all Code requirements.
2. Clean lenses on a regular basis to provide maximum light distribution in case of an emergency

IMPORTANT

The servicing of any parts should be performed by qualified service personnel only.
The use of replacement parts not furnished by the manufacturer may cause equipment failure and will void the warranty.

MODEL OE-216-150W

TROUBLESHOOTING

Emergency Lamps do not come on at all:

Pilot Light is out before test...

1. Check AC supply — be sure unit has 24 hour AC supply (non-switched)
2. AC supply is OK and indicator light is out, replace PC Board Assembly. Pilot Light is ON before test
3. Either the output is shortened or overloaded or the battery is not connected
4. Battery is severely discharged. Allow 24 hours for recharge and then retest. REMINDER — This could be the result of a switched AC supply to the unit (which has been turned OFF at some point) a battery with a shortened cell, an old battery or a battery which has been discharged due to a long power outage and is not yet fully recharged

Emergency Lamps come on dim when test button is pressed:

Battery discharged — permit unit to charge for 24 hours and then retest. If lamps are still dim, check charger for proper function. If charger functions correctly, replace battery

Emergency Lamps come on when battery is first connected:

Battery may be connected in reverse polarity. Check connections. Connect Positive (+) lead to Positive (+) battery terminal and Negative (-) lead to Negative (-) battery terminal. The lamps should then turn OFF and the charge indicator should light when AC power is applied (see wiring diagram on the first page of this instruction manual)

Emergency Lamps come on dim when AC power is ON:

Check supply voltage and AC connections . This emergency light is provided with brownout protection. The AC supply must be at least 80% of nominal (120V on a 347V line) for equipment to function normally. At lower voltages, the emergency lamps will begin to glow dimly until the source voltage drops below the full turn-on point. REMINDER — This condition may also be caused by incorrectly connecting a 120V supply line to the 347V transformer lead

Nothing happens when the unit is energized:

Some models have a standard time delay built into the design of the charger board. Please allow 15 minutes with AC current connected. At this point, the LED AC-ON and CHARGE lights should illuminate

ORTECH reserves the right to modify at any time, without notice, any or all of our product's features, designs, components and specifications to meet market changes.