

INSTALLATION, OPERATION AND MAINTENANCE FOR HEAVY DUTY EMERGENCY LIGHTING UNITS—N6, N12 SERIES MODELS: N650, N6100, N1250 AND N12100

SAVE THESE INSTRUCTIONS

IMPORTANT SAFEGUARDS:

When using electrical equipment, always adhere to basic safety precautions including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Do not use outdoors.
2. Do not allow power supply cords to touch hot surfaces.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted securely in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
5. Do not use this equipment for anything other than its intended use.
6. The use of accessory equipment or replacement parts not recommended by the manufacturer will void product listing and warranty and may cause an unsafe condition.
7. The AC voltage rating of this equipment is specified on the product label. Do not connect equipment to any other voltage.
8. Disconnect AC power before servicing and installation.
9. Any service on this equipment should be performed by qualified personnel only.

INSTALLATION

1. Remove front cover.
2. Mount equipment securely in place on wall. In addition to the j-box mounting holes, two additional keyhole slot mounting holes are located at the top of the unit housing. These 2 additional slot mounting holes must be used when mounting unit to wall. Additional chain support may be required by local codes. Chain hook holes are provided at each end of the enclosure.
3. Extend 24-hour AC supply of rated voltage to the equipment, which is furnished with a dual voltage 120/277VAC field selectable input. Refer to Fig. 1. Connect unit to utility power using an approved connector. For 120V supply, connect the line wire to the black lead. For 277V supply, connect the line wire to the orange lead. Connect neutral wire to the white lead. Connect ground wire in accordance with local codes. A green ground lead is provided. **DO NOT ENERGIZE CIRCUIT AT THIS TIME.**

CAUTION: Cap the unused black or orange wire with wire nuts or other approved method. Failure to cap the unused wire will cause an unsafe condition.

4. If remote fixtures are to be connected to the equipment, extend the remote circuit in accordance with Articles 700 and 720 of the National Electric Code (NEC), and connect to the yellow and violet leads. Refer to Fig. 1. **CAUTION:** The minimum wire size required by the NEC is 12 gauge copper or equivalent. Your installation may require larger size wire to ensure that the voltage drop does not exceed five percent (5%). Do not exceed the total output rating of the equipment, including any equipment-mounted heads.
5. Connect battery. Refer to the wiring diagram. Connect the red positive (+) lead from the PC board assembly to the positive (+) battery terminal. Connect the blue negative (-) lead from the PC board assembly to the negative (-) battery terminal. For 12V units, connect jumper wire(s) provided as shown in Fig 1.

CAUTION: Observe polarity. Failure to connect battery properly will result in equipment failure and an unsafe condition. (NOTE: The emergency lights will not illuminate at this time.)

6. Energize the AC supply. The CHARGE indicator will illuminate.
7. Replace the cover.
8. Adjust lighting heads as required.

OPERATION

1. To test the equipment, depress the TEST switch. The CHARGE indicator will go out and the emergency lights will illuminate.
2. Release the TEST switch. The emergency lights will go out and the CHARGE indicator will illuminate.
3. The automatic charger will return and maintain the battery in a fully charged state.
NOTE: Allow battery to charge for a minimum of 24 hours after installation or power failure before conducting a 90-minute test (see TESTING).
4. **CAUTION:** This equipment is furnished with a sophisticated solid state transfer switch which will automatically disconnect the emergency lights from the battery if the battery has been discharged to the end of its useful output.

MAINTENANCE

1. Batteries. The batteries supplied in this equipment require no maintenance. However, they should be tested periodically (see TESTING) and replaced when they no longer operate the connected fixtures for the duration of a 30-second or 90-minute test.
2. Other. Clean lenses and replace lamps as required.

TESTING

1. Paragraph 31-1.3.7 of NFPA 101-1985, Life Safety Code, requires that all emergency lighting equipment be functionally tested every 30 days for a minimum of 30 seconds and tested annually for a full 90 minutes. Written records of testing are to be kept for examination by the authority having jurisdiction.

TROUBLESHOOTING

1. Emergency lights do not operate
 - a. If the charge indicator light is off, make sure the circuit breaker for AC supply is on.
 - b. If the charge indicator light is on:
 - i. Make sure batteries are properly connected.
 - ii. If remote lights are connected to equipment, turn off AC supply and disconnect remote circuit wires from equipment. Turn on AC supply and depress TEST switch. If equipment-mounted lights are now on, check remote circuit for short or overload condition and correct as required. Then reconnect circuit wires and restore AC power.
 - iii. If problem persists, replace batteries.
2. Emergency lights are dim
 - a. Batteries not fully charged. Allow batteries to recharge for 24 hours, then retest. If problem persists, replace batteries.
3. Remote lights are dim
 - a. Remote circuit wire size is too small, causing excessive voltage drop. Refer to INSTALLATION, Step 4.

INSTALLATION, OPERATION AND MAINTENANCE FOR HEAVY DUTY EMERGENCY LIGHTING UNITS—N6, N12 SERIES MODELS: N650, N6100, N1250 AND N12100

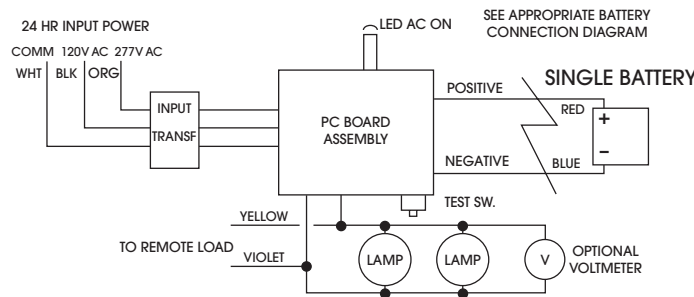
IMPORTANT SAFEGUARDS:

When using electrical equipment, always adhere to basic safety precautions including the following:

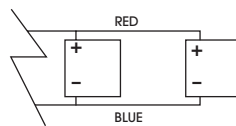
OUTPUT RATINGS AND REPLACEMENT PARTS

MODEL	VOLTS	WATTS	*BATTERY CONFIGURATION
N650	6	50	(2) 6 VOLT IN PARALLEL
N6100	6	100	(4) 6 VOLT IN PARALLEL
N1250	12	50	(2) 6 VOLT IN SERIES
N12100	12	100	(4) 6 VOLT IN SERIES/PARALLEL

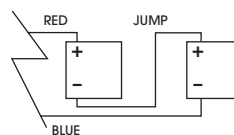
See Battery Replacement Label inside unit for Battery Part Number.
See Lamp Replacement Label inside unit or on Lamp Head for Part Number.



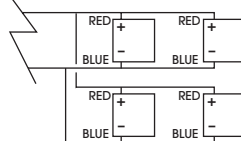
TWO IN PARALLEL



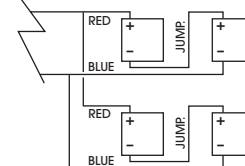
TWO IN SERIES



4 BATTERIES IN PARALLEL



4 BATTERIES IN SERIES/PARALLEL



WARRANTY

Juno Lighting Group warrants that its products are free from defects in material and workmanship. Juno Lighting Group's obligation is expressly limited to repair or replacement, without charge, at Juno Lighting Group's factory after prior written return authorization has been granted. This warranty shall not apply to products which have been altered or repaired outside of Juno Lighting Group's factory. This warranty is in lieu of all other warranties, expressed or implied, and without limiting the generality of the foregoing phrase, excludes any implied warranty of merchantability. Also, there are no warranties which extend beyond the description of the product on the company's literature setting forth terms of sale.

Product Services Phone (888) 387-2212

1300 S. Wolf Rd • P.O. Box 5065 • Des Plaines, IL 60017-5065 • Phone: 800-323-5068 • www.junolightinggroup.com JUNO LIGHTING GROUP

