



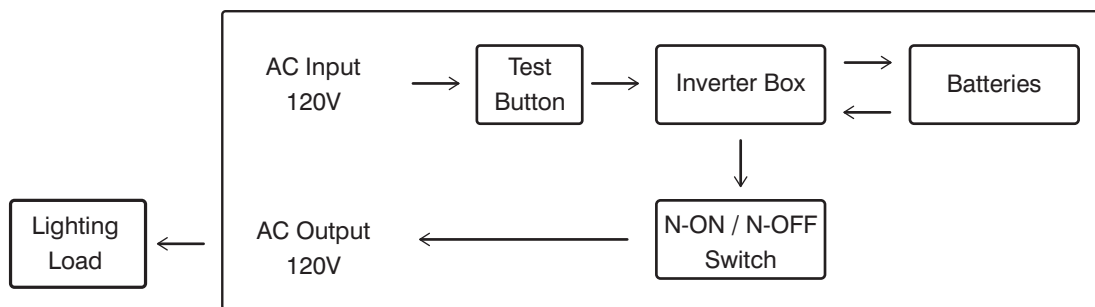
## INSTRUCTIONS

### IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

- 1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Disconnect power before performing work on electrical equipment.
3. Do not use outdoors.
4. Do not let power cords touch hot surfaces and do not mount near gas or electric heaters.
5. 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.
6. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering.
7. The use of accessory equipment not recommended by BeLuce Canada Inc. as it may cause an unsafe condition, and will void the unit's warranty.
8. Do not use this equipment for other than its intended purpose.
9. Servicing of this equipment should be performed by qualified service personnel.
- 10. SAVE THESE INSTRUCTIONS!**

## OVERVIEW



**Input/Output:**  
120VAC / 120VAC, 60Hz, 25.0A

Batteries MUST be connected for Inverter to turn ON

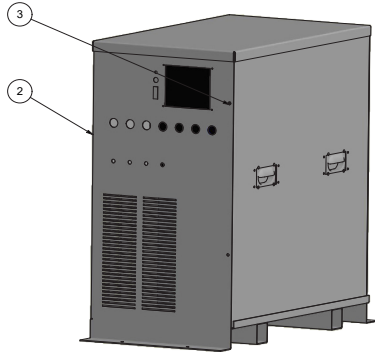
**N-ON (Normally ON):** unit will always provide AC output to lighting load when AC input is available, and during AC input failure

**N-OFF (Normally OFF):** unit will provide AC output to lighting load only when AC supply input fails

**MAXIMUM SURGE VALUES:** Inrush / Peak current factor of the lighting load should be considered while sizing lighting load for the inverter

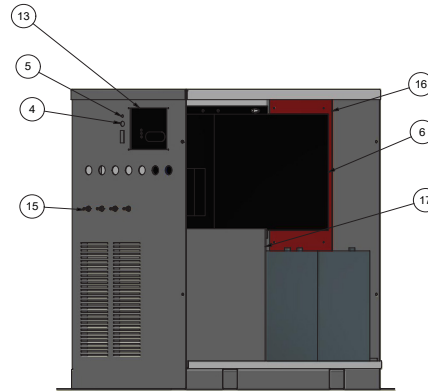
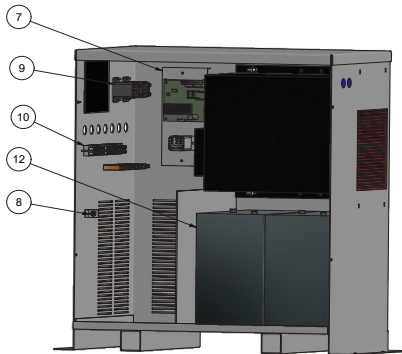
- Nova UAC-P 2500 - 6000W for 0.5 seconds

This unit is **FLOOR MOUNT ONLY!**



### PARTS LIST

1. Cover
2. Cabinet
3. Screws
4. Test Switch
5. Diagnostic
6. Inverter
7. AT Board MT Shelf
8. Toggle Switch
9. Inverter Display
10. Terminal Block
12. Battery
15. Breaker (circuit)
17. Heat Shield

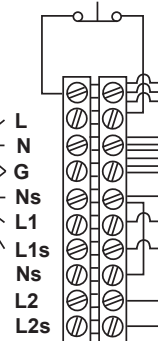


### TERMINAL BLOCK DIAGRAM

OUTPUT TO SWITCHED NORMALLY ON/OFF LOADS

CITY AC IN

### TEST BUTTON



## CAUTION

1. Verify on Lighting load wiring that the **neutral** conductor **IS NOT BONDED OR CONNECTED** to the **ground wiring**.
2. Inverter's AC output **MUST** be wired by its own line and neutral wires. **DO NOT connect the AC output neutral wire to any neutral wires in the building.**
3. If more than one inverter is installed, **DO NOT CONNECT** the neutrals of multiple AC outputs together.
4. **DO NOT CONNECT** the AC output line and neutral to the mains AC input line and neutral.
5. Observe battery polarity. RED is "+" POSITIVE and BLACK is "-" NEGATIVE.
6. The battery charging current has been factory set. **DO NOT** adjust it.
7. Disconnect **ALL** electrical sources including the inverter's AC and DC inputs before servicing.

## MAINTENANCE

1. Allow 24 hours recharge time after installation or power failure before full load testing.  
**NOTE: DO NOT LEAVE BATTERIES CONNECTED TO INVERTER, WITHOUT AC INPUT SUPPLIED OR WITH UNIT SHUTDOWN, FOR A LONG DURATION.**
2. Batteries may stop charging if unit detects a fault / error code; seek qualified support as soon as possible.
3. BeLuce Canada Inc. recommends that the equipment be tested and that written records be maintained according to the local building code.

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## INSTALLATION

**Airflow is vital to the performance of this product.**

**Install with AT LEAST 12" (30cm / 300mm) clear space on both ends and do not block ventilation holes.**

1. Extend un-switched 24-hour AC supply of rated voltage to the unit, installed in accordance with all applicable codes and standards. This circuit should NOT be energized/live at the time.
  2. Unscrew the cover screws on the sides of the unit. Lift and remove the front cover (2).
  3. Knockouts are stamped into the back and side of the cabinet. Knock out the appropriate hole(s) and bring wires through them into the cabinet.
  4. Mount the unit securely into place. This unit is **FLOOR MOUNT ONLY!**
  5. Make proper wiring connections between the AC supply and terminal blocks within the unit (6) (see **AC Wiring** diagram, page 2).
  6. Make proper load connection to the terminal block (6) (see AC wiring diagram above).
  7. Batteries are shipped separately. Install batteries into the cabinet and complete the appropriate connection:  
Red wire to positive battery terminal (+) and Black wire to negative battery terminal (-).
  8. Route wires and secure in place.
  9. Select Load Operation Mode (N-ON / N-OFF) from the internal toggle switch (13).
  10. Replace cover and secure with cover screws (2).
  11. Turn on AC line voltage supply.
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## UNIT RESET

1. Disconnect AC input, disconnect batteries from inverter, disconnect load.
  2. Wait 10 seconds; measure battery voltage during wait period to verify condition.
  3. Reconnect batteries, and then reconnect AC input.
  4. If unit turns ON with no error notifications, turn OFF unit with power button and disconnect AC before reconnecting lighting load.
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## Troubleshooting

Problems	Reasons	Solutions
No AC output voltage during emergency	Surge (or inrush) of lighting load exceeds inverter's maximum, causing unit shutdown	<ul style="list-style-type: none"><li>• Reduce number of connected lighting fixtures, or replace with lower-surge fixtures</li><li>• Reset unit</li></ul>
No AC output voltage, with AC input present (N-ON mode only)	Lighting load exceeds inverter's maximum capacity, causing unit shutdown	<ul style="list-style-type: none"><li>• Reduce number of connected lighting fixtures</li><li>• Reset unit</li></ul>
	Short-circuit, causing AC output circuit breaker to trip	<ul style="list-style-type: none"><li>• Locate and clear short-circuit</li><li>• Reset circuit breaker located on inverter box inside the unit enclosure</li></ul>
Unit does not turn ON, with AC input present	Battery voltage is lower than acceptable threshold	<ul style="list-style-type: none"><li>• Disconnect battery and recharge by separate means; battery may need replacement</li></ul>
	Battery is not connected to inverter box	<ul style="list-style-type: none"><li>• Connect 12V battery terminals to inverter</li></ul>
Unit does not last up to required emergency duration	Battery is not fully charged	<ul style="list-style-type: none"><li>• Allow battery recharge for up to 24 hours</li></ul>
	Lighting load exceeds unit rating	<ul style="list-style-type: none"><li>• Reduce number of connected lighting fixtures to below unit power rating</li></ul>
	Batteries are defective, or aging	<ul style="list-style-type: none"><li>• Replace batteries</li></ul>