

Mini-Inverter with option "-24" ADDENDUM

Refer to the Mini Inverter Instruction Manual for **IMPORTANT SAFEGUARDS** and general information.

- The Mini-Inverter with option "-24" comes with a 24VDC output.
- The 24VDC output is dedicated to power 0-10V dimming load control module, model number RTS-0-10V-24VDC.
- The RTS-0-10V-24 uses current sinking control scheme.
- During normal ac mode, when utility power is present, the voltage at the output of the designated terminal block is 24VDC.
- During power outage, there will be no voltage present at the 24VDC output.
- **During emergency mode, the total load connected to the Mini-Inverter should not exceed the rated capacity in Watts and VA of the Mini-Inverter.**

Rating of 24VDC output

- Maximum output power = 26 W
- Output voltage = 24VDC
- Output current range = 0 to 1.08 A
- Quantity of RTS-0-10V-24 modules that can be driven by 24VDC output is 40.

STEP 1: Connection of Input cable of 24VDC Power Supply:

- Identify the input cable of the 24 VDC Power Supply marked "Connect wire to unswitched position(120V or 277V)" (see Figure 21).
- Connect this cable to the UNSWITCHED INPUT terminal block at either 120Vac or 277Vac position (choose the ac mains voltage being used to power the Mini-Inverter).

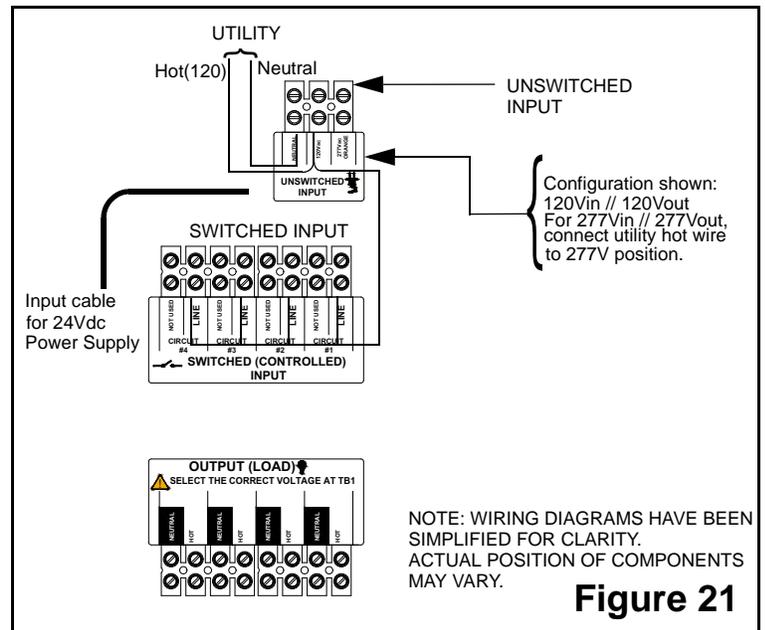


Figure 21

STEP 2: Wiring of Mini-Inverter with RTS-0-10V-24VDC:

- Identify the "+" and "-" terminal blocks dedicated for the 24VDC output (see Figure 22).

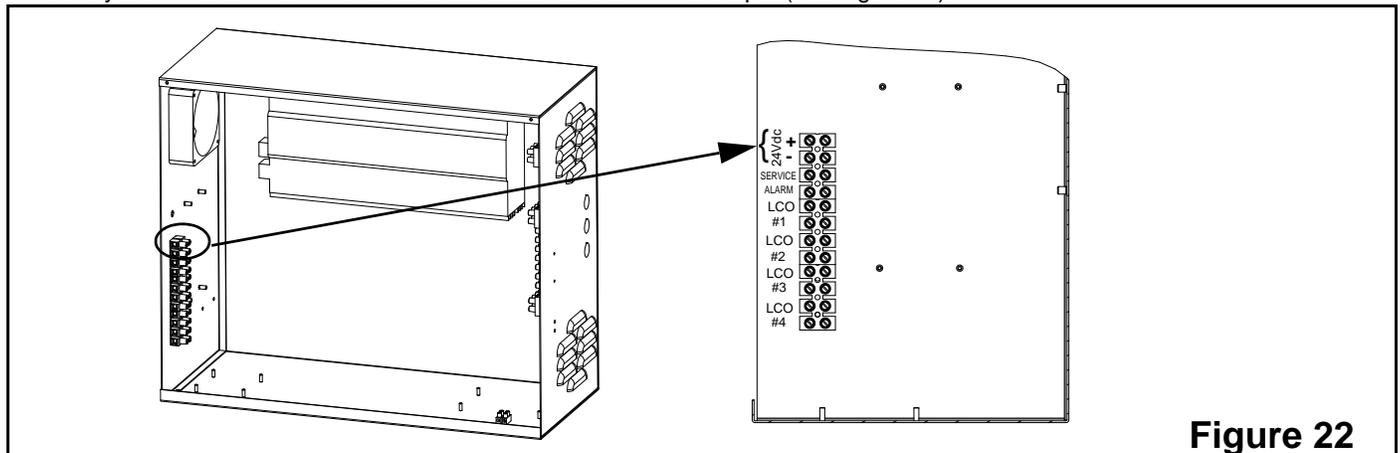


Figure 22

- b. Identify the red and the black wires for 24V on the RTS-0-10V-24.
- c. Refer to figure 23 for a simplified wiring diagram (FOR REFERENCE ONLY). Refer to the dimming module (RTS-0-10V) manufacturer's wiring diagram for more information.



WARNING: LIGHTING OUTPUT ON ANY GIVEN LIGHTING FIXTURE, WHEN WIRING LIGHTING FIXTURES TO AN RTS-0-10V-24 AT A PRE-SELECTED DESIRED DIMMING LEVEL (AS LISTED BELOW), MAY NOT RESPECT THE EXACT LEVEL OF DIMMING STATED IN CONFIGURATION. YOU MUST ALWAYS VALIDATE THAT DIMMED LIGHTING FIXTURES YIELD A MINIMUM LIGHT OUTPUT FOR PATH OF EGRESS PER LIFE SAFETY CODE NFPA101.

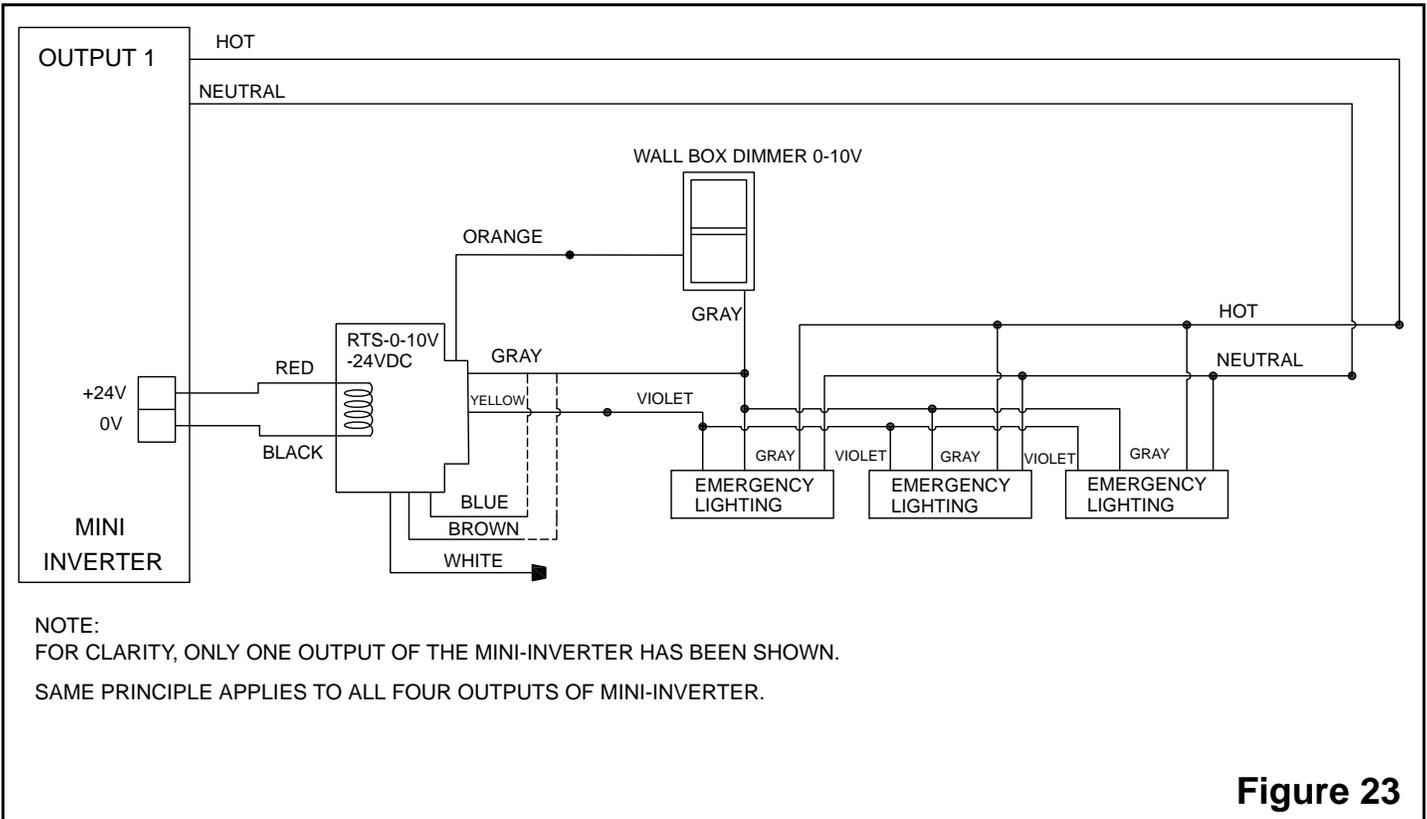


Figure 23

- d. When ac utility power is present, the lighting load is controlled by 0-10V wall dimmer. During a power outage, the load is dimmed at pre-set level, depending on the configuration of the RTS-0-10V-24VDC. Wire according to desired dimming:
 - For approx. 25% brightness, connect brown wire to gray wire and cap off blue wire.
 - For approx. 40% brightness, connect blue wire to gray wire and cap off brown wire.
 - For approx. 45% brightness, connect brown and blue wires to gray wire.
 - A maximum of 20 fixtures can be installed per RTS-0-10V-24.



Important: Ensure the total capacity of the dimmed loads does not exceed the rated capacity in Watts and VA of the Mini-Inverter.