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:

a. Identify the input cable of the 24 VDC Power Supply marked “Connect wire to unswitched position(120V or 277V)” (see Figure 21).

b. 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).

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

a. Identify the "+" and "+" terminal blocks dedicated for the 24VDC output (see 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) manufacture'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.

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**Figure 23**

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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.