

SUMMARY OF QUESTIONS

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QUESTIONS AND ANSWERS

- A1. I have removed the grounded conductor-bonding strap from the output terminal block of a CW series source. Why don't I measure exactly half of the program voltage from the NEUT terminal to ground or from LINE to ground?

The output of the CW series is transformer-coupled and is not using a grounded center tap. When the ground bonding is removed, the voltage measured from line to ground or from neutral to ground is caused by spurious capacitive coupling between the windings of the transformer and the chassis ground. The voltage is not capable of sustaining any significant current flow and can be disregarded. This is not an indication of a fault in the output of the CW series unit. The voltage measured using a high impedance voltmeter can be at almost any value from 0 to nearly the full output voltage across the line to neutral terminations.

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- A2. Can I connect my delta configuration load to the CW series wye output?

Yes, The output can drive a delta load. Since the programmed voltage is referenced line to neutral, take this into consideration when setting a line-to-line voltage for your delta load.

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- A3. How do I use remote sense when using a delta load with CW series sources?

The three phases will go the appropriate remote terminations for the appropriate phases. The Sense Neutral will just be tied locally to the Output Neutral termination.

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- A4. Can the CW series phase lock to an external clock or to another AC source?

Yes, for the programmable versions this is a standard feature, for the manual versions, a Sync option is required. Check Section 3.8.2 in the manual for the Programmable series or in the manual addendum, part number M161692-01 for the manual controlled series.

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- A5. Can a clock signal output be provided for a frequency and / or phase reference?

Yes, for the programmable versions this is a standard feature, for the manual versions, a Sync option is required. Check section 3.8.3 in the manual for the Programmable series or in the manual addendum M161692-01 for the manual controlled series.

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A6. Can the CW series be used for inrush current testing by just closing the output relay or programming the voltage up to the required level from 0 volts?

No. The output of the CW series is ramped up when the relay is closed or when the voltage is programmed. Inrush testing normally requires the load under test to be subjected to a power application at a peak of the voltage sine wave. An external circuit would be required to accomplish this type of turn on.

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A7. If my sense leads disconnect, will the output jump to full scale?

No. The CW utilizes an internal resistance to tie the sense leads to the output. If the sense leads disconnect, the output at the load will drop in voltage. The amount of drop is dependent on the resistance of the output cables and any contacts, switches etc. in the lines.

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