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## QUESTIONS AND ANSWERS

A1. How do I obtain replacement analog meters for my supply?

We no longer stock these parts, but they can be purchased direct from the supplier. This is the link to the supplier part number cross-reference. <Show link to replacement meter page>

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A2. Can I change the AC input voltage of my DCRB2 supply?

Yes, the operators' manual has the schematics showing the various input voltages that can be used and the changes that must be made to wire the unit for different input voltages. The DCRB manuals can be found at our web page [www.ProgrammablePower.com](http://www.ProgrammablePower.com) under 'SUPPORT' – 'PRODUCT MANUALS' – 'Obsolete Sorensen Products' DCRB or DCRB2 section.

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A3. Are replacement parts available for the DCRB2 series of supplies?

As these are obsolete supplies not all parts are available, we can no longer provide replacement printed circuit boards, metalwork, transformers or inductors for example. Many replacement parts are available and AMETEK Programmable Power Application Engineers may be able to help you locate parts we no longer stock. Send an email request to: [service@programmablepower.com](mailto:service@programmablepower.com)

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A4. I have visited the Programmable Power web page and I have seen DCRB and DCRB2 product families. How can I tell what version I have?

The DCRB family the case is all black, the DCRB2 family the front panel is black but the case is zinc-chromate plated metal. It may look metallic yellow-gold.

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A5. The DCRB supply we have is working but is displaying some unusual behavior. It seems to be trying to produce output but it is not stable and the voltage drifts slowly at times and sometimes will not adjust to its' rated voltage.

The electrolytic capacitors used in this supply can lose substantial capacity with Age. If they are more than six years old they may need replacement (most of the capacitors we use have a 4 digit date code placed on them by the manufacturer. i.e. 9823 = 1998, 0345 = 2003) where the first two digits are the year of manufacture and the next 2 digits are the week. To save expense always replace all the old capacitors on the Control PCB assembly first then try the large bulk filter capacitors mounted in the chassis.

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A6. This DCRB supply trips the Over-voltage protection circuit whenever it is turned on.

Are the Sense leads still in place? The Positive output must be connected to TB3-1 and the negative output must be connected to TB3-2. For normal stand alone operation the following connections on TB3 must be made:

Jumper TB3-3 to TB3-4

Jumper TB3-5 to TB3-6

Jumper TB3-7 to TB3-8

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A7. This DCRB supply trips the Over-voltage protection circuit and the circuit breaker whenever it is turned on AND the supply makes a very noticeable humming noise just before the breaker trips to the off position. What can cause this?

This set of symptoms can be caused by a shorted input SCR or a defective control loop. To verify it is an input SCR problem physically remove the Control Board PCB assembly and apply power to the unit. If the symptoms remain it is quite likely to be a shorted input SCR. If there is no output the problem is a control loop problem on the PCB assembly.

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A8. Can the DCRB power supplies be controlled through the use of remote signals?

Yes, please refer to the operators' manual for instructions about this feature as there is some model dependency using remote resistance programming.

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A9. Our DCRB supply came with output stud hardware that is split down the middle and uses clamping nuts to secure the load cables. Can you provide these as a replacement part?

No, we no longer stock these parts, however they can be replaced with 1/4 X 20 hardware.

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