

SUMMARY OF QUESTIONS

- Q1. [How do I obtain replacement analog meters for my supply?](#)
- Q2. [Can I change the AC input voltage of my DCRB2 supply?](#)
- Q3. [Are replacement parts available for the DCRB2 series of supplies?](#)
- Q4. [I have visited the Programmable Power web page and I have seen DCRB and DCRB2 product families. How can I tell which I have?](#)
- Q5. [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?](#)
- Q6. [This DCRB supply trips the Over-voltage protection circuit whenever it is turned on?](#)
- Q7. [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?](#)
- Q8. [Can the DCRB power supplies be controlled through the use of remote signals?](#)
- Q9. [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?](#)
- Q10. [Is technical support available for this product?](#)
- Q11. [Are replacement panel meters available for the DCRB2 series?](#)

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>

[Return to Summary of Questions]

- 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 under 'SUPPORT' – 'PRODUCT MANUALS' – 'Obsolete Sorensen Products' DCRB or DCRB2 section.

[Return to Summary of Questions]

- 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

[Return to Summary of Questions]

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.

[Return to Summary of Questions]

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.

[Return to Summary of Questions]

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

[Return to Summary of Questions]

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.

[Return to Summary of Questions]

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.

[Return to Summary of Questions]

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.

[Return to Summary of Questions]

A10. Is technical support available for this product?

Yes, please check for contact telephone numbers at www.Programmablepower.com. If you decide to call, please record the full model number and serial number as printed on the ID label. The number found on the faceplate of the unit does not list options or modifications that may have been installed on the supply and this lack of information may lead to a delay or a wrong answer in obtaining technical assistance.

[Return to Summary of Questions]

A11. AMETEK no longer stocks the meters for this product. There is at least one known source for replacement meters. The following contact information and part numbers may help in locating these items:

DCRB2 Meter Part Numbers

Supplier: Larson Metercraft
9328-A Wheatlands Road
Santee, CA 92071
(619)-258-8990

VOLTMETERS

Model	Output Voltage	Sorensen/Elgar PN	Larson Metercraft PN
DCR10-XXX	10	94-579-1	00-890067-025
DCR20-XXX	20	94-579-2	00-890067-018
DCR40-XXX	40	94-579-3	00-890067-019
DCR60-XXX	60	94-579-4	00-890067-020
DCR80-XXX	80	94-579-5	00-890067-021
DCR150-XXX	150	94-579-6	00-890067-022
DCR300-XXX	300	94-579-7	00-890067-023
DCR600-XXX	600	94-579-8	00-890067-024

AMMETERS

Model	Output Current	Sorensen/Elgar PN	Larson Metercraft PN
DCRXXX-3	3	1063179-15	00-890286-015
DCRXXX-6	6	1063179-6	00-890286-006
DCRXXX-12	12	1063179-7	00-890286-007
DCRXXX-18	18	1063179-8	00-890286-008
DCRXXX-25	25	1063179-14	00-890286-014
DCRXXX-30	30	1063179-5	00-890286-005
DCRXXX-40	40	1063179-4	00-890286-004
DCRXXX-50	50	1063179-11	00-890286-011
DCRXXX-80	80	1063179-3	00-890286-003
DCRXXX-120	120	1063179-1	00-890286-001

[Return to Summary of Questions]