

Features

- Robust Design
- Convection Cooling
- Allow current sharing between two power supplies connected in parallel
- Can connect more than two power supplies
- Provides 1+1 redundancy arrangement
- Built in cooling for diodes
- Ratings from 10A to 200A

SPECIFICATIONS

DESCRIPTION:

Oring diodes are used in coupling up two or more Power Supply Units so as to ensure a fail safe power source.

Two power supplies of the same voltage and current capacity are wired up so the two outputs are connected to the inputs of the oring diode assembly. The output of this assembly, will have the same voltage as the feed supplies and is connected to the critical load. Providing the output voltage from each DC power supply is identical then they will share the load. This ensures that if one of the power supply units should fail, the oring diode will transfer the load to the good power supply.

Oring diodes also have the capacity to allow current sharing; if the load that is connected to the output of the oring diodes, requires more current than one power supply's maximum rating, then the amount of current needed can be the sum of the currents from the electrically balanced power supplies, less a reasonable margin. It is important that the power supplies be adjusted to allow for 0.7 Volts drop at the oring diodes output and also for the supply voltages to be balanced.

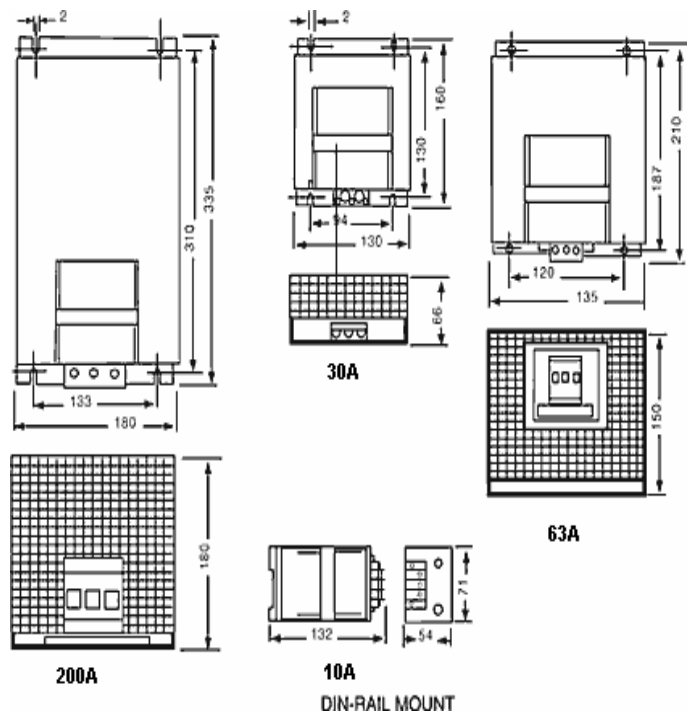
If more than two power supplies need to be connected then oring diode assemblies to take more than two power supplies can be manufactured if need be.

SELECTION TABLE:

Model	Rating (A)	Voltage (dc)
SOD-10	10	0-150
SOD-30	30	0-150
SOD-63	63	0-150
SOD-200	200	0-150

For voltages above 150 Vdc please consult Snaptec.

MECHANICAL DRAWINGS:



TYPICAL CONNECTION DIAGRAM:

