



Sheet Metal Covers on Open Frame Linear Power Supplies

AN-130



Condor does not provide any covers for any of its standard line of linear power supplies for thermal reasons. If a cover is required, we suggest a thermal analysis be performed to determine the best size, shape, air ducting and fan cooling that may be required. A strong wire mesh screen type cover will keep fingers out and let heat out, while keeping radiated emissions inside.

As a general rule, linear power supplies running anywhere near their full load ratings will run hot and some may require fan cooling. Adding a cover to a linear could restrict the natural convection or fan cooling and make the supply run hotter. The expected lifetime of some component is directly related to temperature. As temperature increases, expected lifetime decreases. We suggest the power supply chassis temperature does not exceed 90 degrees C for extended periods of time.



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