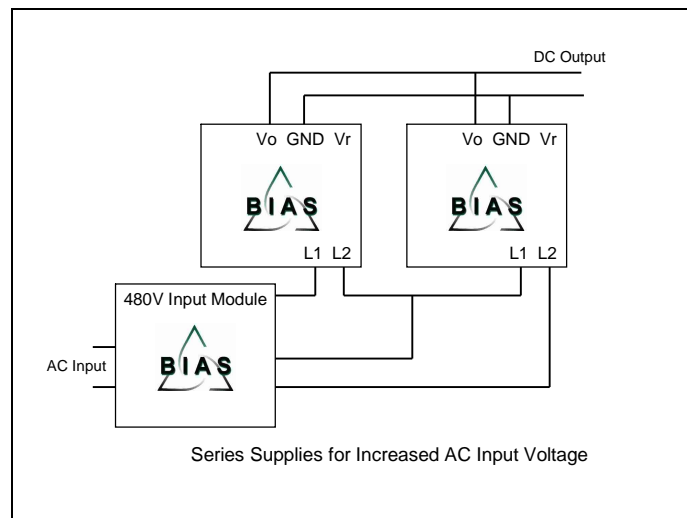


Application Note 127 – Using High AC Input Voltages



Applications where the input AC voltage is more than the rated voltage for the Bias Power supply, the power supplies can be configured in series. Connecting multiple power supplies in series, as shown in the figure below, will provide higher AC input voltage tolerance. The power supplies used must have the same output voltage rating if connecting the outputs in parallel. *See Application Note 423 regarding increasing power output for more information regarding power supply output operation.*



In this configuration, as the load draws more power than a single supply would normally provide, it will cause a drop in the output voltage. The second supply responds to this by providing additional power. The supply's output power can be determined by adding together the power ratings of the individual power supplies. For more information on voltage (V) and current (I) limiting devices see [APPNote125 - Input Protection](#).

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