



# APPLICATION NOTES

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## Application Note 26

### PARALLEL 721A POWER SUPPLY OPERATION

In applications where customers desire more than 225 ma of current (maximum for a 721A) they can obtain it from two 721A Power Supplies operated in parallel.

Usually it is not possible to operate two supplies in parallel because there will always be a slight difference in the output supply voltages which means that one supply will deliver all the output current. Thus total current available is limited to the full load current of one supply.

With two Model 721A's in parallel, however, as soon as the full load current of one supply is reached its current limit switch operates so that it will supply no additional current <sup>1</sup>. It is then possible to draw 225 ma out of the other supply to make a total current of 450 ma <sup>2</sup>. Total current possible without the limit switch would be only 225 ma.

Here is a good way to tell present customers how to get more use from their 721A's and to tell prospective customers how the limit switch increases 721A versatility.

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<sup>1</sup> At this point the voltage across the load will change by the voltage difference of the two 721A's.

<sup>2</sup> The 721A no-load to full-load regulation spec only applies, of course, to currents up to 150 ma for each supply.