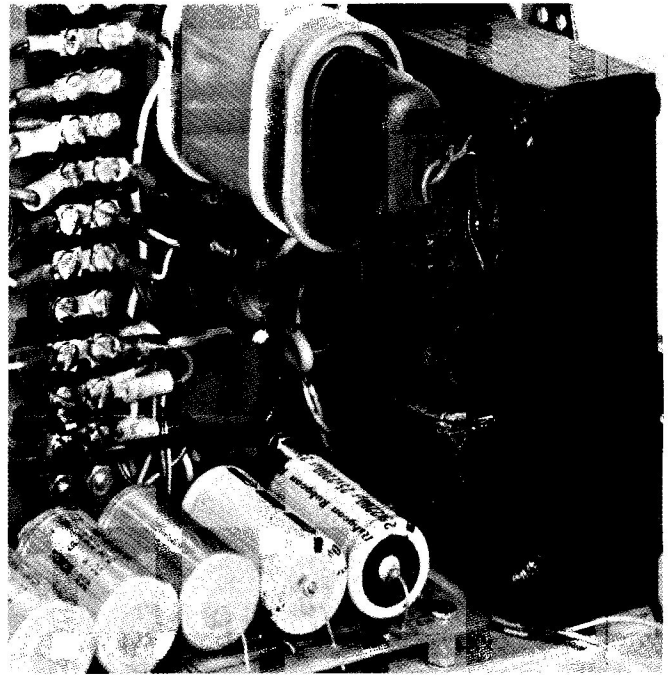


A Parasitic Engineering constant voltage power supply kit can keep your Altair up even when the power line droops. It also provides high output, increased isolation from line noise and excellent over voltage protection—and it does all this at a **price you can afford.**

The key to this superior performance is the use of a custom-wound ferro-resonant constant voltage (C-V) transformer. The kit combines the C-V transformer with high current rectifiers and improved filtering to provide full output with the line voltage as low as 90 volts, yet up to 140 volts will not produce excessive output.

SPECIFICATIONS

Input voltage:	90 to 140 volts.
Output voltage (nominal):	+ 8 volts, \pm 16 volts.
Output current:	8 volt supply: 12 amps. \pm 16 volt supply: 2 amps total.
Line regulation:	Less than 5% change for input from 100 to 130 volts.
Load regulation:	Less than 10% change from 10% load to full load.



Installs easily in place of the three standard 8800 transformers.

HOW A C-V TRANSFORMER WORKS

A C-V transformer differs from a conventional transformer in two major ways: First the primary and secondary windings are mounted on the same core, but physically separated with a fixed reluctance magnetic shunt between them; Second there is an additional secondary winding which has a capacitor connected across it to form a parallel tuned circuit. The magnetic shunt allows the primary and secondary windings to run with different levels of magnetic flux in their part of the core. Under normal operation, the secondary core is saturated and this causes the tuned secondary to behave in a non-linear manner. This non-linear tuned circuit induces a correction voltage into all of the secondary windings. The induced voltage changes its phase and amplitude as the input voltage changes. Thus, at a low input voltage, the correction voltage is in phase with the output and adds to the output. While at a high input voltage, the correction voltage is out of phase and subtracts from the output. This regulating action keeps the output constant over a wide range of input voltage. A C-V transformer has a few more useful features: It protects itself from overloads; When overloaded, the secondary core saturates harder and the current is limited to approximately twice the rated value. Also, the saturated secondary core produces an output with flattened peaks, which provides improved load regulation, and less ripple. Finally, the loose coupling between the windings attenuates spikes and other line noise.

Don't let the Byte Snatchers get your computer down. Keep your Altair 8800 up and running with a Parasitic Engineering Constant Voltage Power Supply Kit.

only \$90 postpaid

Calif. residents add \$5.40 sales tax

The kit is simple to install, and comes complete with all necessary parts and detailed easy to follow instructions.

PARASITIC ENGINEERING

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