

# Portable AC Power P Series

**LOW COST  
PROGRAMMABLE  
AC POWER**



- **Portable Power, Low Cost.**  
*Portable solution for wide range of AC power tests.*
- **810 VA to 1250 VA Output Power**  
*Capable of handling most single phase applications.*
- **Simple Front Panel Operation**  
*Analog style controls and digital read-outs for key functions.*
- **16 Hz to 500 Hz Frequency Range**  
*Utility and Avionics applications.*
- **High Peak Current Capability**  
*Drives a wide variety of non-linear loads.*
- **Remote Control Option**  
*Ideal for Automated test applications.*

## Compact AC Power

With European and US outlet sockets to connect the load, the 801P, 1001P and 1251P portable programmable AC power sources are ideal for a wide variety of applications

Universal input allows use anywhere in the world to provide a convenient source of variable utility power for the testing and evaluation of domestic and commercial equipment. All common line voltage and frequency combinations are covered.

In addition, the frequency range covers 500 Hz, making these products ideal for commercial and defense avi-

onics applications. The current measurement function eliminates the need for an external current shunt or transformer. Load current of the UUT (Unit Under Test) can be read directly on the large LCD display to 0.1 A. For additional protection, a current limit function can be set from zero to the maximum current available.

High peak current capability of more than three times the RMS current allows the P Series to drive non-linear loads.

## Easy To Use Controls

Front panel digital rotary encoders are used to set voltage and frequency. These controls have an analog feel, with the precision and reliability of digital circuits. Settings are read directly on the large high contrast LCD displays.

Both models offer two output voltage ranges, 135 VRMS L-N and 270 VRMS L-N, maximizing the current at the required voltage.

The output frequency can be varied from 16 Hz up to 500 Hz to cover both avionics and utility power applications.

## Product Evaluation and Test Applications

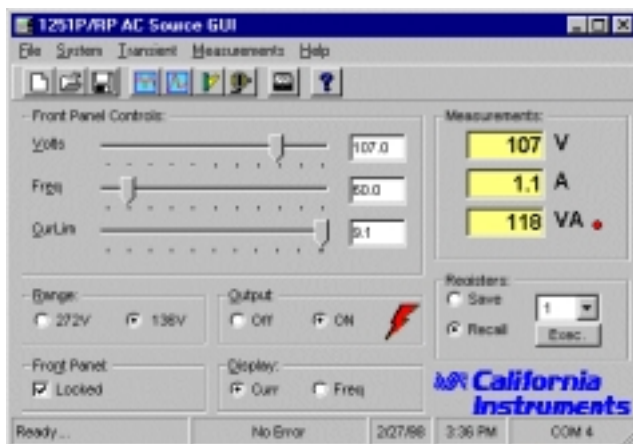
Traditional Variac tests can be automated using the P Series AC sources. With digital voltage readout, and measurement of load current, several items of equipment can be eliminated from 'first time power up' tests. All functions are contained in a single convenient and easily portable package, which can be most useful in production applications.

## Avionics Applications

As affordable and reliable sources of 400 Hz AC power, the 801P, 1001P and 1251P are well suited for commercial and defense avionics applications.

## Remote Control

Equipped with the optional RS232C serial interface, these units are easily integrated into an ATE system. A Windows™ Graphical User Interface (GUI) program is included for PC control applications.



Windows™ Graphical User Interface software included

## Low Cost Of Ownership

Careful design, the use of modular construction and quality components, all contribute to provide many years of un-interrupted service. The modular construction allows components or sub-assemblies to be replaced quickly to minimize downtime.

## Ordering Information

### Models:

801P 810 VA AC Source  
1001P 1000 VA AC Source  
1251P 1250 VA AC Source

### Options

-232 Optional RS232C Interface. Includes Windows™ Graphical User Interface software and serial cable  
-ISS International Socket Strip  
-ISR Rackmounted ISS

### Line Cord Options:

Country	801P/1001P	1251P
Europe	PC11	PC11
Australia / New Zealand	PC12	PC12
UK / Ireland	PC13	PC13
Denmark	PC14	PC14
India	PC15	PC15
Israel	PC16	PC16
Italy	PC17	PC17
North America*	PC21	PC18
Switzerland	PC19	PC19
Japan	PC20	PC20

\* One North American Line cord is included.

### Supplied with:

- North American Line Power Cord
- USA and European line output mating connector
- Instruction Manual

### Terms:

Net 30 days on approved credit

### Delivery:

30 days ARO

### Shipment:

F.O.B. San Diego, CA. Freight collect.

## Customer Support

For technical support and service, or to discuss your AC power application needs, contact California Instruments Corp. at (858) 677-9040 or your local representative.

Specifications*		801P	1001P	1251P	Unit
<b>Controller</b>					
Type		Programmable			
Controls		Digital Encoders			
Readout	Voltage	4 digit LCD			
	Frequency and Current	4 digit LCD			
Non Volatile Setups (with Option -232)		8			
<b>Output</b>					
AC Power		810	1000	1250	VA
<b>Voltage</b>					
Range	low	0 - 135			V (L-N)
	high	0 - 270			V (L-N)
Accuracy	@ 50/60 Hz	± 1			% FS
	@ 400 Hz	± 2			% FS
Resolution		0.1			V
Line & Load Regulation	lo range	± 1			% FS
	hi range	± 0.5			% FS
Total Harmonic Distortion	@ 50/60 Hz	< 0.55			% typical
Output Noise		< 0.1			V typical
<b>Frequency (specifications valid from 45 Hz to 500 Hz)</b>					
Range		16 - 500			Hz
Accuracy		± 0.02			%
Resolution	below 100 Hz	0.1			Hz
	above 100 Hz	1			Hz
<b>Current</b>					
Current - Steady State	lo range	6.0	7.4	9.2	ARMS
	hi range	3.0	3.7	4.6	ARMS
Peak Current	lo range	17.8	22.2	27.6	A
	hi range	8.9	11.1	13.8	A
<b>Protection</b>					
Current limit	Mode	Programmable			
	Resolution	0.1			ARMS
Over Temperature		yes			
Over Voltage		yes			
<b>Input</b>					
Line Voltage	2 wire + GND	100 - 240 ±10 %			VRMS
Input Current		<15	< 15	< 20	ARMS
Line Frequency		47 - 63			Hz
Holdup Time		20			ms
Power Factor		> 0.95			typical
<b>Measurements</b>					
<b>Current</b>	Range	0.0 - 10.0			ARMS
	Accuracy	± 0.2			ARMS
	Resolution	0.1			A
<b>Voltage</b> (requires Option -232)	Range	0 - 278			V
	Resolution	1 (below 250 V)			V
<b>Remote Control Option -232</b>					
Interface type		RS232C			
Baud rate		9600			
Command Language		SCPI			
<b>Physical</b>					
Dimensions	HxWxD	8.25 x 8.5 x 17.5			inches
	HxWxD	210 x 216 x 445			mm
Weight		30 / 13.6			lbs / kg
Operating Temp.		0 - 40			° C

\* Specifications are warranted over an ambient temperature range of 0 to 40 °C and apply after a 30 minute warmup period.

## Contact California Instruments:

858 677-9040

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Web page: http://www.calinst.com

 **California Instruments**

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