- 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 readouts 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.

# Portable AC Power **P** Series

LOW COST PROGRAMMABLE **AC POWER** 



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### **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-

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Output

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Display

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1251P/RP AC Source GUI

Front Panel Controls

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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

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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**

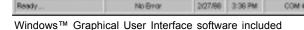
Traditional Variac tests can be automated using the P Series AC sources. With digital voltage readout, and measurement of load current, several items of equipment can be eliminated from 'first time power up' tests. All functions are contained in a single convenient and easily portable package, which 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<sup>™</sup> Graphical User Interface (GUI) program is included for PC control applications.



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## Low Cost Of Ownership

Careful design, the use of modular construction and quality components, all contribute to provide many years of uninterrupted service. The modular construction allows components or subassemblies 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
- -ISK Rackinounted 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
Controller				12011	onic
Type Controls Readout	Type Controls Readout Voltage Freqency and Current		Programmable Digital Encoders 4 digit LCD 4 digit LCD		
Non Volatile Setups (with Op	otion -232)		8		
Output		010	4000	4050	
AC Power		810	1000	1250	VA
Voltage Range	low high		0 - 135 0 - 270		V (L-N) V (L-N)
Accuracy	@ 50/60 Hz @ 400 Hz		± 1 ± 2		% FS % FS
Resolution	-		0.1		V
Line & Load Regulation Total Harmonic Distortion Output Noise	lo range hi range @ 50/60 Hz		± 2 ± 1 < 0.55 < 0.1		% FS % FS % typical V typical
	ecifications valid fr	om 45 Hz			
Range Accuracy Resolution	below 100 Hz above 100 Hz		16 - 50 ± 0.02 0.1 1		Hz % Hz Hz
Current			•		1 112
Current - Steady State Peak Current	lo range hi range lo range hi range	6.0 3.0 17.8 8.9	7.4 3.7 22.2 11.1	9.2 4.6 27.6 13.8	Arms Arms A A
Protection					
Current limit Over Temperature Over Voltage	Mode Resolution	Programmable 0.1 yes yes			Arms
Input			<b>,</b>		
Line Voltage Input Current Line Frequency Holdup Time Power Factor	2 wire + GND	100 - 240 ±10 % <15 < 15 < 20 47 - 63 20 > 0.95		VRMS ARMS Hz ms typical	
Measurements	Danga		0.0 10	0	A 5140
Current Voltage (requires Option -232)	Range Accuracy Resolution Range Resolution	0.0 - 10.0 ± 0.2 0.1 0 - 278 1 (below 250 V)			Arms Arms A V V
Remote Control Option -232					
Interface type Baud rate Command Language Physical		RS232C 9600 SCPI			
Dimensions Weight	HxWxD HxWxD	8.25 x 8.5 x 17.5 210 x 216 x 445 30 / 13.6		inches mm Ibs / kg	

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

(858) 677-9040

Operating Temp.

Contact California Instruments: Toll-Free: 800-4AC-POWER 800-422-7693 FAX: 858-677-0940 Email: sales@calinst.com Web page: http://www.calinst.com

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