

- **Worldwide Voltage and Frequency Output**  
*Test your product for operation anywhere in the world*
- **Easy to Use Test Limit Parameters**  
*Check for high and low frequency and voltage conditions*
- **Unique Two Stage Current Limit protection**  
*Starts virtually any load within specified rms rated power*
- **Universal Input from 85V to 264V, 47 to 63 Hz**  
*Use in any country, no need to change input power setup*
- **High Efficiency with Input Power Factor Correction**  
*Operates from standard single phase utility power outlets*
- **Lightweight and Portable**  
*Easy to move between applications, only 30 lb. (13.6 Kg)*

## Portable Line Power Model 1001WP / 1251WP

**Test Your Product  
for Worldwide Use**



### International Testing

Products manufactured in one country are often used in another. And, though the utility line power may have similar characteristics, often the frequency and voltage available at the place of manufacture are completely different.

Traditionally, variacs or auto transformers are used for testing products aimed at international markets. This testing covered only different *voltage* conditions. With the increasing use of microprocessors and logic timing circuits however, products should also be tested at different line *frequencies*.

### ISO 9000 Quality Requirements

Requirements of international quality standards such as ISO 9000 suggest that products should be tested as they are going to be used. These California Instruments supplies represent a new concept to meet the require-

ments of companies who need to test their products for use from nonstandard power. The portable, conveniently sized unit delivers a continuous 1000 VA of power. Operating efficiently from a single phase AC outlet, these products put the convenience of international power at any bench...in the laboratory, the test department, or in the field.

### Five Standard Voltage Ranges

Output voltage of 100, 115, 220, 230 and 240 Volts are available to produce all standard world power options. A rear panel switch selects between one of the low voltages and one of the high voltages. The low voltage output is available from a USA Nema 5-15R duplex output. The high voltage output is available from the European CEE 7/7 outlet. This prevents the accidental application of high voltage to equipment configured for USA domestic use. Selection of either 100/

115 V or 220/230/240 V is via a conveniently accessible switch. Any combination of one high and one low voltage option is possible. The selected output voltage is indicated on the front panel. Outlets for other countries are available from the optional International Socket Strip.

### 50 and 60 Hz Output Frequency

The output frequency can be selected to be either 50 or 60 Hz, independent of the input frequency or output voltage. Testing of product for operation from a different line frequency without first having to design a new power supply or locate a step up or down transformer, is possible. This is especially important for products that rely on line power synchronization. The selected output frequency is also indicated on the front panel.

## Simple, Easy to Use Limit Testing

With preset limits at  $\pm 10\%$  of the output voltage selected, and  $\pm 3\text{Hz}$  of either 50 or 60 Hz, it is extremely easy to test products for operation over normal worst case conditions. The limit switches feature associated LED's to indicate either the nominal or limit condition so that the output status is immediately clear.

## Low Cost Of Ownership

Careful design, the use of modular construction and quality components, all contribute to provide you many years of uninterrupted service. The modular construction allows components or subassemblies to be replaced quickly to minimize downtime.

## Ordering Information

### Models:

1001WP 1000 VA AC Frequency Changer.

1251WP 1250 VA AC Frequency Changer.

### Line Cord Options:

Country	Part No.
Continental Europe	PC11
Australia / New Zealand	PC12
UK / Ireland etc.	PC13
Denmark	PC14
India	PC15
Israel	PC16
Italy	PC17
Switzerland	PC19
North America*	Note 1

\* One North American Line cord is included.

Note 1: PC21 for 1001WP  
PC18 for 1251WP

### Supplied with:

- North American Line Power Cord (PC21)
- USA and European line output mating connector
- Instruction Manual

Specifications*		1001WP	1251WP	Unit
<b>Controller</b>				
Type		Fixed		
Controls		Push Buttons		
Readout	Voltage	LED's		
<b>Output</b>				
AC Power		1000	1250	VA
<b>Voltage</b>				
Selectable	low range	100, 115		V (L-N)
	high range	220, 230, 240		V (L-N)
Accuracy		$\pm 1\%$		of setting
Limit Testing		- 10%, nominal, + 10%		
Line & Load Regulation		$\pm 2\%$		Max.
Total Harmonic Distortion		$\leq 1\%$		typical
Output Noise	low range	$\leq 150$		mV
	high range	$\leq 500$		mV
<b>Frequency</b>				
Selectable		50 or 60		Hz
Accuracy		$\pm 1\%$		
Limit Testing		-3, nominal, +3		Hz
<b>Current</b>				
Current - Steady State	low range	9.0	11.0	ARMS
	high range	4.5	5.5	ARMS
Peak Current	low range	29.0	33.0	A
	high range	14.5	16.5	A
<b>Protection</b>				
Output Over Current		yes		
Short Circuit		yes		
Over Temperature		yes		
Over Voltage		yes		
<b>Input</b>				
Line Voltage	2 wire + GND	100 - 240 $\pm 10\%$		VRMS
Input Current		< 15	< 20	ARMS
Line Frequency		47 - 63		Hz
Holdup Time		20		ms
Power Factor		> 0.95		typical
Line Cord Input Connector		IEC320/C19		
<b>Physical</b>				
Regulatory		CE, UL, CSA		
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 / 32-104		$^{\circ}\text{C}$ / $^{\circ}\text{F}$

\* Specifications are warranted for an ambient temperature of  $23^{\circ} + 5^{\circ}\text{C}$  and apply after a 30 minute warmup period.

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