



Advanced Test Equipment Rentals

www.atecorp.com 800-404-ATEC (2832)

- **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 |
|---------------------------|--------------|-----------------------|--------|---------------------------------------|
| Controller | | | | |
| Type | | Fixed | | |
| Controls | | Push Buttons | | |
| Readout | Voltage | LED's | | |
| Output | | | | |
| AC Power | | 1000 | 1250 | VA |
| Voltage | | | | |
| 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 | ≤ 150 | | mV |
| | high range | ≤ 500 | | mV |
| Frequency | | | | |
| Selectable | | 50 or 60 | | Hz |
| Accuracy | | $\pm 1\%$ | | |
| Limit Testing | | -3, nominal, +3 | | Hz |
| Current | | | | |
| 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 |
| Protection | | | | |
| Output Over Current | | yes | | |
| Short Circuit | | yes | | |
| Over Temperature | | yes | | |
| Over Voltage | | yes | | |
| Input | | | | |
| 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 | | |
| Physical | | | | |
| 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.

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>

California Instruments

9689 Towne Centre Drive, San Diego, CA 92121-1964 (858) 677-9040

© Copyright 2000, California Instruments Corp.

Specifications subject to change without notice

FAX : (858) 677-0940

Printed in the USA. DS-WP 03/00