

# VariPLUS®

## Power Converter



Model 105



Model 104



### Overview

The VariPLUS® is a product power converter specifically designed for electrical product manufacturers. The VariPLUS allows manufacturers to fully comply with international safety agency standards during routine production line testing without the need to purchase an expensive AC power source. With features and benefits far beyond those of a traditional variable transformer, the VariPLUS is an efficient solution for production line testing. The VariPLUS utilizes accurate digital metering,

safe high speed shut down circuitry, and an easy-to-use interface that will increase efficiency and improve performance on the production line. For manufacturers looking to sell products abroad, the VariPLUS can output voltages at both 50 and 60 Hz with the push of a button. The VariPLUS will outperform a variable transformer in every single aspect. Model 105 is a 500 VA Power Converter and Model 104 is a CE Listed 400 VA Power Converter.

### Highlights

- Front panel lockout
- SmartVOLT® feature allows the operator to configure the instrument to power up at 0 volts or the previously used voltage before the instrument was turned off
- Multiple power up configurations
- Metering circuits monitor voltage, current, frequency and power
- Push button interface for 50/60 Hz output
- Isolated output ensures that the power provided to the DUT is free from distortion, voltage spikes and other transients
- Digital rotary knob ramps up the voltage smoothly and uniformly with your index finger
- Output /Reset key maximizes operator safety by enabling and disabling the output with a simple push-button
- Power up feature configures the output relay for quick and efficient testing

***APT...Power to the Customer!***



# Specifications - VariPLUS

INPUT		104	105
Phase		1 $\Phi$	
<b>Voltage</b>		115/230 VAC Selectable $\pm$ 10% Variation	
Frequency		47 – 63 Hz	
OUTPUT			
<b>Voltage</b>		0 - 300 VAC	
Max Power		500 VA @ $\leq$ 400 W	500 VA
Max Current (rms)		2.3 A @ < 220 V, 4.6 A @ 110 V	
Phase		1 $\Phi$ 2W	
Frequency		50, 60 Hz Selectable	
THD		< 1% (Resistive Load)	
Crest Factor		$\geq$ 3	
Line Regulation		$\pm$ 0.1 V	
Load Regulation		$\pm$ (0.5% of output + 0.5 V) at Resistive Load	
Response Time		< 400 $\mu$ sec	
MEASUREMENT			
<b>Voltage</b>	Range	0.0 - 400.0 V	
	Accuracy	$\pm$ (1% of reading + 2 counts)	
Frequency	Range	50, 60 Hz Selectable	
	Accuracy	$\pm$ 0.1% Hz of setting	
Current (rms)	Range	0.0 – 6.50 A	
	Accuracy	$\pm$ (1% of reading + 5 counts)	
Power	Range	0 - 650 W	
	Accuracy	$\pm$ (2% of reading + 10 counts) at PF $\geq$ 0.2	
GENERAL			
Inrush Current		4 times the current rating	
Enhanced Over Load Capacity		4 times of rating current, Over Current 110% can hold for 1000 ms w/o Protection	
Operation Key Feature		Frequency, Display, System, Lock, Output	
Digital Encoder		Adjusts output voltage and system parameter values	
Fan		Temp. Control Two Fan Speed	
Front Output		–	Universal Receptacle
Rear Output		Terminal Block	–
Displays		LED	
<b>Efficiency</b>		$\geq$ 80% (at full load)	
Protection Circuits		Over Current, Over Voltage, Over PP, Over Temperature	
Calibration		Front Panel Calibration	
Dimensions W x H x D - inches/mm		14 x 5.25 x 12 in	
		355 x 133 x 300 mm	
Net Weight Lbs. (kg)		28 lbs (13 kg)	

Specifications subject to change

## Why We Use Counts

APT publishes some specifications using “counts” which allows us to provide a better indication of the tester’s capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range.

For example, if the resolution for voltage is 1V then 2 counts = 2V.