

Power Converter

The VariPLUS® is a power converter specifically designed to produce variable output voltages at 50/60 Hz for testing in the production line or laboratory environment. The VariPLUS out performs the traditional variable transformer on multiple levels that include metering, automatic voltage and frequency adjustments to the load. Simple adjustments are made through dedicated keys and a rotary knob. The universal receptacle provides multi-national connections while adding safety to the operator.



Model 105



Model 105

Features

- 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

Options

- Grounded Neutral

Applicable Industries



Laboratory



Lighting



Medical



Test & Measurement

APT Benefits



INPUT		104	105
Phase		1Ø	
Voltage		115/230 VAC Selectable ± 10% Variation	
Frequency		47 – 63 Hz	
OUTPUT			
Voltage		0 - 300 VAC	
Max Power		500 VA @ ≤ 400 W	500 VA
Max Current (RMS)		2.3 A @ <220 V, 4.6 A @ <110 V	
Phase		1Ø2W	
Frequency		50, 60 Hz Selectable	
THD		<1% (Resistive Load)	
Crest Factor		≥ 3	
Line Regulation		± 0.1 V	
Load Regulation		± (0.5% of output + 0.5 V) at Resistive Load	
Response Time		<400 µsec	
MEASUREMENT			
Voltage	Range	0.0 - 400.0 V	
	Accuracy	± (1% of reading + 2 counts)	
Frequency	Range	50, 60 Hz Selectable	
	Accuracy	± 0.1% Hz of setting ± .03%	
Current (RMS)	Range	0.0 – 6.50 A	
	Accuracy	± (1% of reading + 5 counts)	
Power	Range	0 - 650 W	
	Accuracy	± (2% of reading + 10 counts) at PF ≥ 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	
Efficiency		≥ 80% (at full load)	
Protection Circuits		Over Current, Over Voltage, Over PP, Over Temperature	
Calibration		Front Panel Calibration	
Dimensions (W x H x D)		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.



Model 104



Model 104