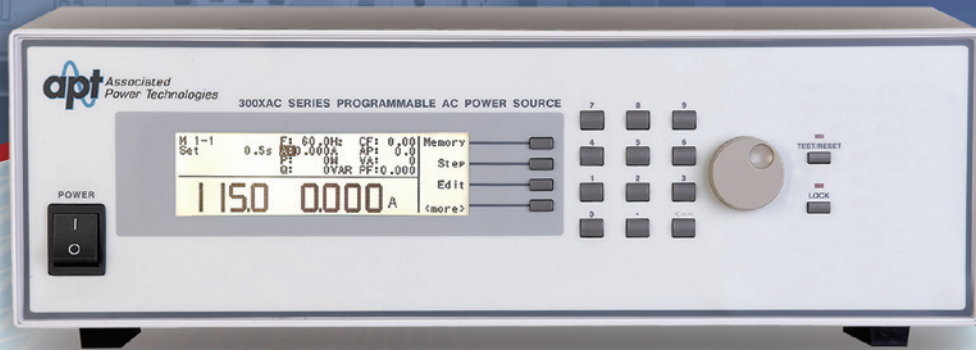


# AC Power Sources

## Manual - Automated - Modular



**300XAC Series** Modular AC Power Sources €€

**7000 Series** Automated AC Power Sources €€

**6000 Series** Automated AC Power Sources

**5000 Series** Manual AC Power Sources

**LS Series** Linear AC Power Sources €€

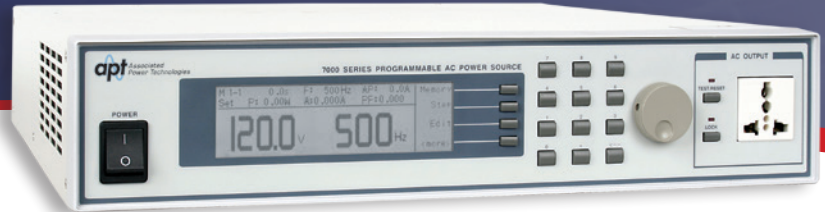
**VariPLUS®** Power Converter €€ *Model 104 Only*



***APT...The Power of Value!***

# 7000 Series

## Automated AC Power Sources



### Overview

Our 7000 Series automated AC power sources are ideal for advanced applications at competitive prices. Switch-mode technology and a direct coupled output make these sources lightweight and efficient for use on the bench-top or in a rack mount system. The graphic LCD display provides real-time

data on the front panel and the easy-to-use local interface allows operators to get tests up and running quickly.

The 7000 Series comes with your choice of an automated interface at no extra charge. Choose from USB, Ethernet, RS-232 or GPIB.

### Features

- 50 built-in memory locations with 9 test steps can be linked to quickly store and recall test parameters for multiple product testing applications
- Surge/Drop features simulate voltage variations, brownouts, and transient voltage conditions
- Adjust the starting and ending angle of the output waveform
- Labview drivers available
- LCD display monitors voltage, current, frequency, peak current, power, and power factor
- PLC output with Pass, Fail, and Test-in-Process signals
- Adjustable delay time, ramp up time, and test duration
- Independent, adjustable high and low limits for voltage, current, frequency, power, and power factor
- Power up feature configures the output relay for quick and efficient testing
- Constant current output with over current fold back feature
- Test/Reset key quickly disables output voltage
- Front panel lockout and password protection
- Rack mount handles standard
- Standard USB/RS-232 interface with optional GPIB and Ethernet interfaces available at no extra charge
- CE Compliance with EU requirements

## ***APT...The Power of Value!***



Warranty



Guaranteed Shipment

- ***Industry-leading standard 2-year warranty***
- ***Guaranteed 24-hour shipment or we pay the freight***
- ***48-hour turnaround on all repairs***
- ***45-day return policy – no questions asked***

48 Hour Turnaround



On All Repairs



Return Policy

# Specifications - 7000 Series

INPUT		7004	7008	7016	7040	
Phase		1 $\Phi$				
Voltage		115/230 VAC $\pm$ 10%		208 VAC $\pm$ 10%		
Frequency		47 – 500 Hz				
OUTPUT						
Voltage		0 - 300 V		5 - 300 V		
Max Power		400 VA*	800 VA*	1600 VA*	4000 VA	
Max Current 1 $\Phi$	0 - 150 V	4.6 A @ < 110 V	9.2 A @ < 110 V	18.4 A @ < 110 V	36.8 A @ < 110 V	
	0 - 300 V	2.3 A @ < 220 V	4.6 A @ < 220 V	9.2 A @ < 220 V	18.4 A @ < 220 V	
Phase		1 $\Phi$				
Frequency		40.0 - 500 Hz				
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				
MEASUREMENT						
Voltage	Range	0.0 - 400.0 V				
	Accuracy	$\pm$ (1% of reading + 2 counts)		$\pm$ (1% of reading + 5 counts) > 5 V		
Frequency	Range	0.0 - 500 Hz				
	Accuracy	$\pm$ 0.1 Hz				
Current (rms)	Range	0.005 A - 6.50 A	0.005 A - 13.00 A	0.05 A - 26.00 A	0.05 A - 52.00 A	
	Accuracy	$\pm$ (1% of reading + 5 counts)				
Current Peak	Range	0.0 A - 19.0 A	0.0 A - 38.0 A	0.0 A - 76.0 A	0.0 A - 152.0 A	
	Accuracy	$\pm$ (1% of reading + 5 counts)				
Power	Range	0.0 W - 650 W	0.0 W - 1300 W	0.0 W - 2600 W	0.0 W - 5200 W	
	Accuracy	L	$\pm$ (2% of reading + 15 counts) at PF > 0.2	$\pm$ (2% of reading + 30 counts) at PF > 0.2	$\pm$ (2% of reading + 5 counts) at PF $\geq$ 0.2	
		H	$\pm$ (2% of reading + 5 counts) at PF > 0.2	$\pm$ (2% of reading + 10 counts) at PF > 0.2	$\pm$ (2% of reading + 5 counts) at PF $\geq$ 0.2 Voltage > 5 V Current > 0.05 A	
Power Factor	Range	0.000 - 1.000				
	Accuracy	WVA, Calculated and displayed to three significant digits				
OPTIONS						
230 VAC Input	Option 1	–		Yes		
Grounded Neutral	Option 2	Yes				
GPIB Interface	Option 3	Yes				
7 Memory Recall	Option 4	Yes (Test, Reset, Recall Memory 1-7)				
Ethernet Interface	Option 6	Yes				
GENERAL						
Rackmount Handles		Standard				
USB/RS-232 Interface		Standard				
Lockout		Key lockout or password protection				
Front Output		Universal Receptacle	Universal Receptacle	Universal Receptacle	–	
Efficiency		$\geq$ 80% (at Full Load)				
Operation Environment		0 - 40°C / 20 - 80% RH				
Dimensions W x H x D - inches/mm	16.92 x 3.50 x 15.75 in		16.92 x 3.50 x 15.75 in		16.92 x 3.50 x 19.69 in	
	430 x 89 x 400 mm		430 x 89 x 400 mm		430 x 89 x 500 mm	
Net Weight Lbs. (kg)		36.4 lbs (16.5 kg)	40 lbs (18.2 kg)	66 lbs (30 kg)	143.3 lbs (65 kg)	

**\* Output Power and Power Factor Considerations**

The reactive output power specification of models 7004, 7008, and 7016 change depending on the power factor of the load. While the 7004, 7008, and 7016 are specified as 400 VA, 800 VA, and 1.6 kVA units respectively, they can actually output up to 25% more reactive power based on the power factor of the load, thus keeping the real power under the specified limit. The reactive power is at its peak when the power factor = 0.8. See chart below for more information:

	7004	7008	7016
Output Power at pf $\leq$ 0.8	500 VA @ 400 W	1000 VA @ 800 W	2000 VA @ 1600 W
Output Power at pf > 0.8	400 VA @ $\leq$ 400 W	800 VA @ $\leq$ 800 W	1600 VA @ $\leq$ 1600 W

Specifications subject to change

# **APT...The Power of Value!**

*AC Power Sources for All Applications*

## **300XAC Series**

*Modular AC Power Sources*



## **7000 Series**

*Automated AC Power Sources*



## **6000 Series**

*Automated AC Power Sources*



## **5000 Series**

*Manual AC Power Sources*



## **LS Series**

*Linear AC Power Sources*



## **VariPLUS®**

*Power Converter*



**To order or for more information  
please give us a call today!**

**Toll Free: +1-877-322-7693 or +1-909-860-1646**

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Power Technologies®*