

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

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

APT MODEL		7004	7008	7016	7040	
INPUT						
Phase		1 Φ				
Voltage		115/230 VAC \pm 10%		208 VAC \pm 10%		
Frequency		47 – 500 Hz				
OUTPUT						
Voltage		0 - 300 V		5 - 300 V		
Max Power*		500VA @ \leq 400W	1000VA @ \leq 800W	2000VA @ \leq 1600W	4000VA	
Max Current 1 Φ	0 - 150V	4.6 A @ $<$ 110 V	9.2 A @ $<$ 110 V	18.4 A @ $<$ 110 V	36.8 A @ $<$ 110 V	
	0 - 300V	2.3 A @ $<$ 220 V	4.6 A @ $<$ 220 V	9.2 A @ $<$ 220 V	18.4 A @ $<$ 220 V	
Phase		1 Φ				
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)	\pm (2% of reading + 30 counts)	\pm (2% of reading + 5 counts)	
		H	\pm (2% of reading + 5 counts)	\pm (2% of reading + 10 counts)		
Power Factor	Range	0.000 - 1.000				
	Accuracy	W/VA, 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				
Efficiency		\geq 80% (at Full Load)				
Operation Environment		0 - 40°C / 20 - 80% RH				
Dimensions (W x H x D mm)		430 x 89 x 400	430 x 89 x 400	430 x 89 x 500	430 x 222 x 500	
Net Weight		16.5 kg	18.2 kg	30 kg	65 kg	

*Specifications subject to change

* The 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 400VA, 800VA and 1.6kVA units respectively, they can actually output more power if the power factor of the load is \leq 0.8. See the chart below for more information:

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



The Power of Value!

Our Promise to You



45-day return policy

We are so confident that you will see the benefits of an APT power source that if you are unsatisfied with your instrument for any reason, you may return it for a full refund within 45-days.



2-year standard warranty

All APT instruments include at no cost a standard 2-year warranty. This guarantees a new APT instrument to be free from defects in workmanship for a period of up to 2 years from the date of shipment. There are no costs to the user for this warranty and no requirements for calibration or inspection. APT is the only company in the industry to offer a 2-year warranty standard.



24-hour guaranteed shipping

Ordering a standard model? Every standard APT power source ships from our factory within 24-hours or we pay the freight.



48-hour turnaround on all repairs

If your instrument needs service for any reason, we guarantee to have it repaired and shipped out of our facility within 48-hours of receiving it.

Changing the Way the Power Source Industry Does Business

The benefits of choosing APT only start when you purchase an instrument. We pride ourselves on providing you with the best service in the industry. When you choose APT, you're choosing a partner that will continue to help you for the life of your product, no matter what the application.

The Latest Technology

All APT instruments utilize the latest technology and come standard with a direct-coupled output, making them light weight and rugged. Our feature-rich user interfaces are designed with the operator in mind and include built-in safety features to protect the instrument, operator, and DUT.

Unparalleled Service and Support

No competitor can match our dedication to service and support. With 24-hour shipment on all standard models and 48-hour turnaround on all repairs, APT keeps your business up and running with minimal down-time.

Redefining Value

While our competitors focus solely on performance/price ratios, we believe value doesn't stop at the point of purchase. Our products come standard with a 2-year warranty. Should you ever experience a problem with your instrument, rest assured that we back your purchase with the best service and the fastest turnaround in the industry.

***For more information
check out our website at:
www.aspowertechnologies.com***

