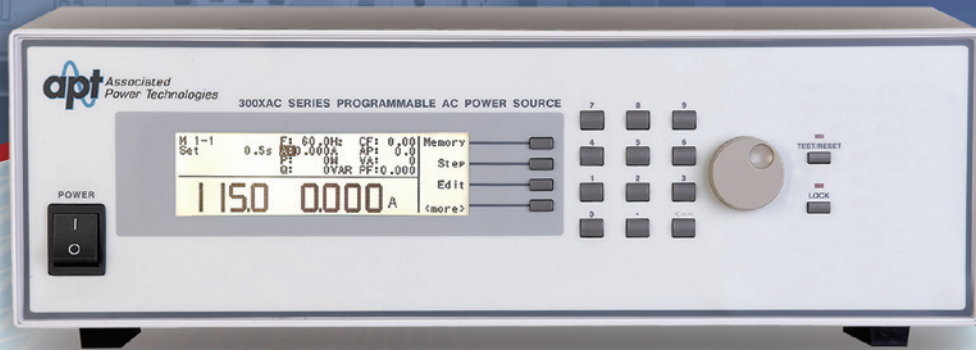


# AC Power Sources

## 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 €€

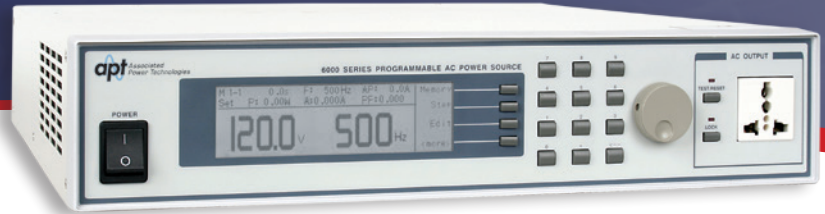
**VariPLUS®** Power Converter €€ *Model 104 Only*



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

# 6000 Series

## Automated AC Power Sources



### Overview

Our 6000 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 6000 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
- Optional DC output capability

## ***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 - 6000 Series

| INPUT                            |                                    | 6005  | 6010                              | 6020                                    | 6040                             |  |
|----------------------------------|------------------------------------|---|-----------------------------------|---|----------------------------------|--|
| 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                        |                                    | 500 VA  | 1 kVA                             | 2 kVA                                   | 4 kVA                            |  |
| 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) | $\pm$ (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                           | 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   |                                   |   |                                  |  |
| DC Output Voltage                | Option 7                           | Yes   |                                   |   |                                  |  |
| GENERAL                          |                                    |   |                                   |   |                                  |  |
| Rack Mount Kit                   | 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 - 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           | 16.92 x 8.74 x 19.69 in                 |                                  |  |
|                                  | 430 x 89 x 400 mm                  | 430 x 89 x 400 mm   | 430 x 89 x 500 mm                 | 430 x 222 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)                       |                                  |  |
| DC OUTPUT VOLTAGE                |                                    |   |                                   |   |                                  |  |
| Voltage                          |                                    | 0 - 400 V   |                                   |   |                                  |  |
| Max Power                        |                                    | 250 W   | 500 W                             | 1000 W                                  | 2000 W                           |  |
| Max Current                      | 0 - 200 V                          | 2.3 A   | 4.6 A                             | 9.2 A                                   | 18.4 A                           |  |
|                                  | 0 - 400 V                          | 1.5 A   | 2.3 A                             | 4.6 A                                   | 9.2 A                            |  |
| Ripple & Noise (rms)             |                                    | 0 - 200 V < 250 mV & 0 - 400 V < 400 mV                   |                                   | 0 - 200 V < 350 mV & 0 - 400 V < 400 mV |                                  |  |

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!

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