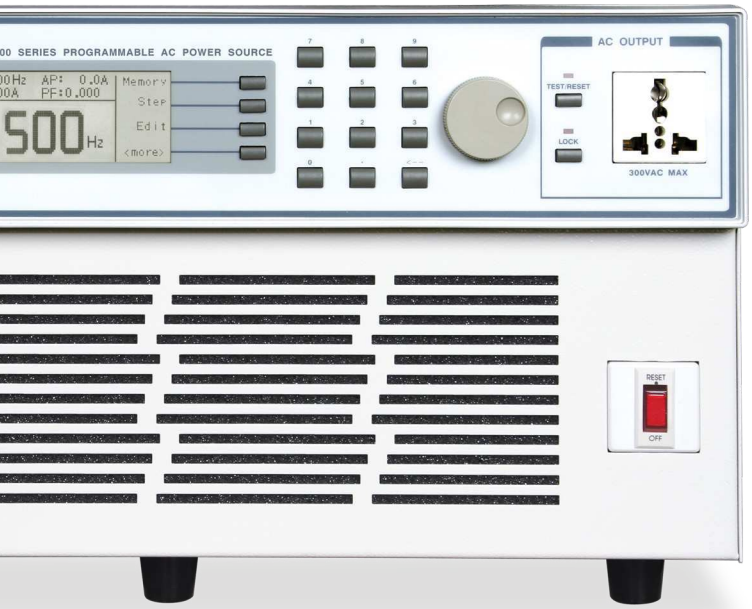
6000 Series

Automated AC Power Sources

Our 6000 Series of automated AC power sources are ideal for applications where PC control is ideal to capture metering and testing results from the source. We provide LabVIEW drivers and PowerTRAC™ software free of charge, to assist you in getting your power source up and running in no time. Our simple to use front panel interface is ideal for customers that are not interested in using a PC and need the flexibility to operate the source at a moments notice for quick testing.



Start Output
PowerTRAC™ AVAILABLE

NI LabVIEW
DRIVER AVAILABLE

Features

- 50 built-in memory locations with 9 test steps
- DC output capability (optional)
- Surge/Drop features simulate voltage variations, brownouts and transient voltage conditions
- Programmable starting and ending angle of the output sine wave
- Metering circuits monitor voltage, current, peak current, power, apparent power, reactive power, power factor, and crest factor
- Constant current output with over current fold back feature
- Front panel lockout via password protection
- Rack mount handle kit included

Standard

- USB/RS-232 Interface

Options

- 230 VAC ± 10%
- Grounded Neutral
- GPIB Interface
- 7 Remote Memories
- Ethernet Interface
- DC Output

Applicable

Aerospace · Appliance · Laboratory · Lighting · Medical

APT Benefits

WARRANTY 3 YEAR WARRANTY

10 DAY GUARANTEED SHIPMENT

INPUT			6005	6010	6020	6040
Phase			1Ø			
Voltage			115/230 VAC ± 10%		208 VAC ± 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 1Ø	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			1Ø			
Frequency			47 - 500 Hz			
THD			<1% (Resistive Load)			
Crest Factor			≥3			
Line Regulation			± 0.1 V			
Load Regulation			± (0.5% of output + 0.5 V) at Resistive Load			
MEASUREMENT						
Voltage	Range		0.0 - 400.0 V			
	Accuracy		± (1% of reading + 2 counts)		± (1% of reading + 5 counts) >5 V	
Frequency	Range		0.0 - 500 Hz			
	Accuracy		± 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		± (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		± (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	± (2% of reading + 15 counts)	± (2% of reading + 30 counts)	± (2% of reading + 5 counts)	
		H	± (2% of reading + 5 counts)	± (2% of reading + 10 counts)		
Power Factor	Range		0.000 - 1.000			
	Accuracy		W/VA, Calculated and displayed to three significant digits			
GENERAL						
Rack Mount Kit			Standard			
USB/RS-232 Interface			Standard			
Lockout			Key lockout or password protection			
Efficiency			≥80% (at Full Load)			
Operation Environment			0 - 40°C / 20 - 80% RH			
Dimensions (W x H x D)			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			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

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.