

5000 Series

Manual AC Power Sources

Our 5000 Series manual AC Power sources are lightweight and efficient while providing a robust feature set. Ideal for bench-top applications, they feature four LED displays that monitor voltage, current, frequency, power and power factor. The easy-to-use local push-button interface allows you to quickly set-up and change parameters with ease while built-in safety features protect the instrument, the operator, and the DUT ensuring a safe work environment.



Features

- 3 built-in memory locations to store and quickly recall test parameters
- LED displays monitor voltage, current, frequency, and power / power factor
- Independent, adjustable high and low limits for voltage, current, and frequency
- Power Up feature configures the output relay for quick and efficient testing
- Constant current output with over current fold back feature
- Front panel lockout

Options

- 230 VAC \pm 10%
- Grounded Neutral



Applicable Industries



Aerospace



Laboratory



Lighting



Medical

APT Benefits



INPUT		5005	5010	5020	5040
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		40.0 - 450 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) >5V	
Frequency	Range	0.0 - 500 Hz			
	Accuracy	± 0.1 Hz			
Current (RMS)	Range	0.00 A - 6.50 A	0.00 A - 13.00 A	0.00 A - 26.00 A	0.05 A - 52.00 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	± (2% of reading + 10 counts) at PF ≥0.2			
Power Factor	Range	0.000 - 1.000			
	Accuracy	W/VA, Calculated and displayed to three significant digits			
GENERAL					
Lockout		Key lockout			
Inrush Current		4 times the max rated current			
Enhanced Over Load Protection		4 times of rating current, Over Current 110% can be held for 1000ms w/o shutdown of output			
Over Current Foldback		Constant Current Mode (Voltage output varies to maintain current output based on load)			
Memories		3 Programmable Memory Locations			
Front Output		Universal Receptacle			
Rear Output		–	–	Universal Receptacle	Terminal Block
Displays		4 LED Displays			
Operation Key Feature		Up/Down Arrow Keys			
Voltage Limits		Programmable High & Low Limits			
Frequency Limits		Programmable High & Low Limits			
Power Up Settings		Specify Output Power Condition on Power Up (On, Off, Last)			
Protection Circuits		Over Current, Over Voltage, Over Power, Over Temperature			
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 11.81 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 300 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)

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.