

5000 Series

Manual AC Power Sources

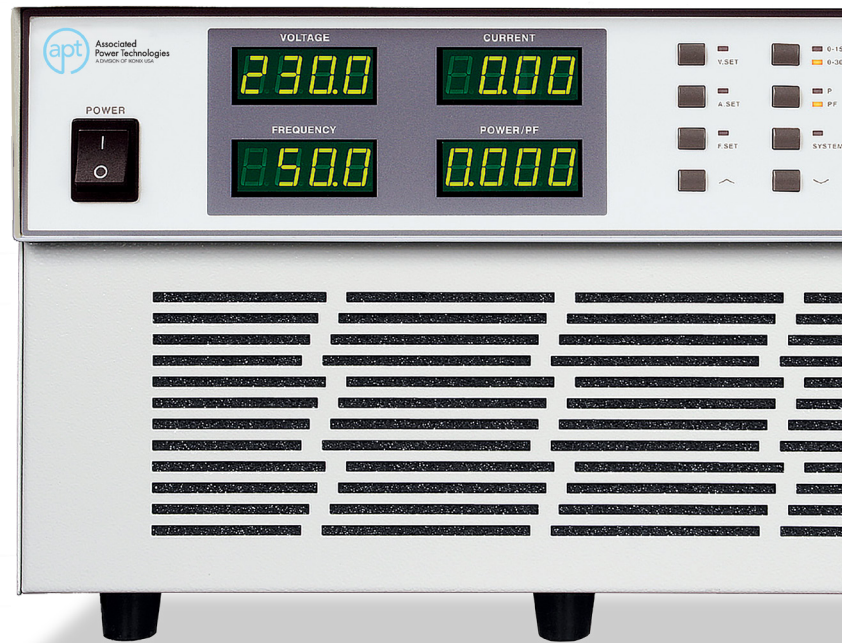
Our 5000 Series manual AC power sources are lightweight and efficient while providing a robust feature set. Ideal for bench-top applications, they feature four LED displays that monitor voltage, current, frequency, power, and power factor. The easy-to-use local push-button interface allows you to quickly 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



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	
	430 x 89 x 300 mm		430 x 89 x 400 mm		430 x 89 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.