

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



3 YEAR WARRANTY



10 DAY GUARANTEED SHIPMENT

Specifications – 5000 Series

| 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.