



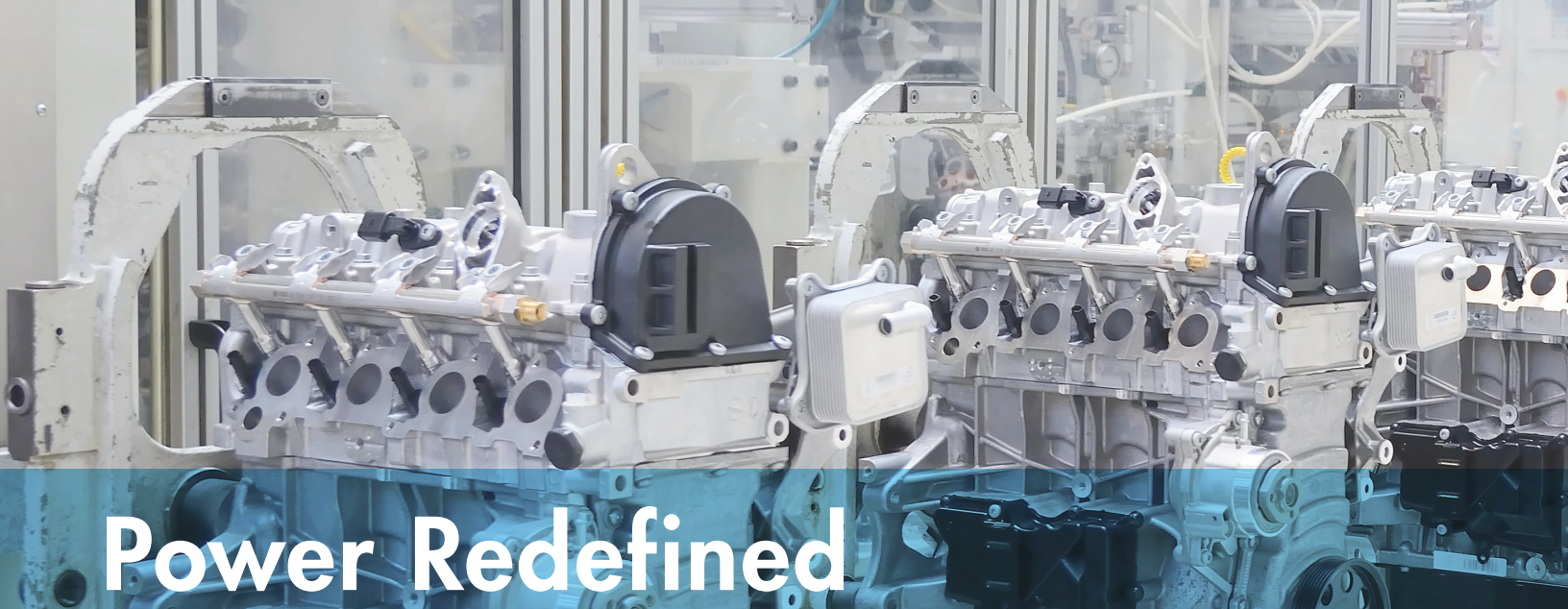
AC Power Sources

Manual • Automated • Modular



Power Redefined

3 Phase AC Power Sources • Modular AC Power Sources • Automated AC Power Sources
Manual AC Power Sources • Linear AC Power Sources • Power Converters



Power Redefined

Our Power Sources are designed and supported in the USA. We're factory direct, so you'll never have to deal with a middle man. Our highly trained sales staff focuses on every customer no matter the size of the order. From our industry-leading warranty to our return and repair policies, we have redefined how the power source industry does business. When you compare our dedicated people and extensive support programs, you'll be sure to choose APT.

CHANGING the way the POWER SOURCE INDUSTRY DOES BUSINESS

When you choose APT, you're choosing a partner that will continue to assist you throughout the life of your product, no matter what the application.

GREEN INITIATIVE

We are committed to responsible manufacturing processes and environmental sustainability. Our Green Initiative is led by individuals throughout our organization who are committed to making day-to-day operations as green as possible.

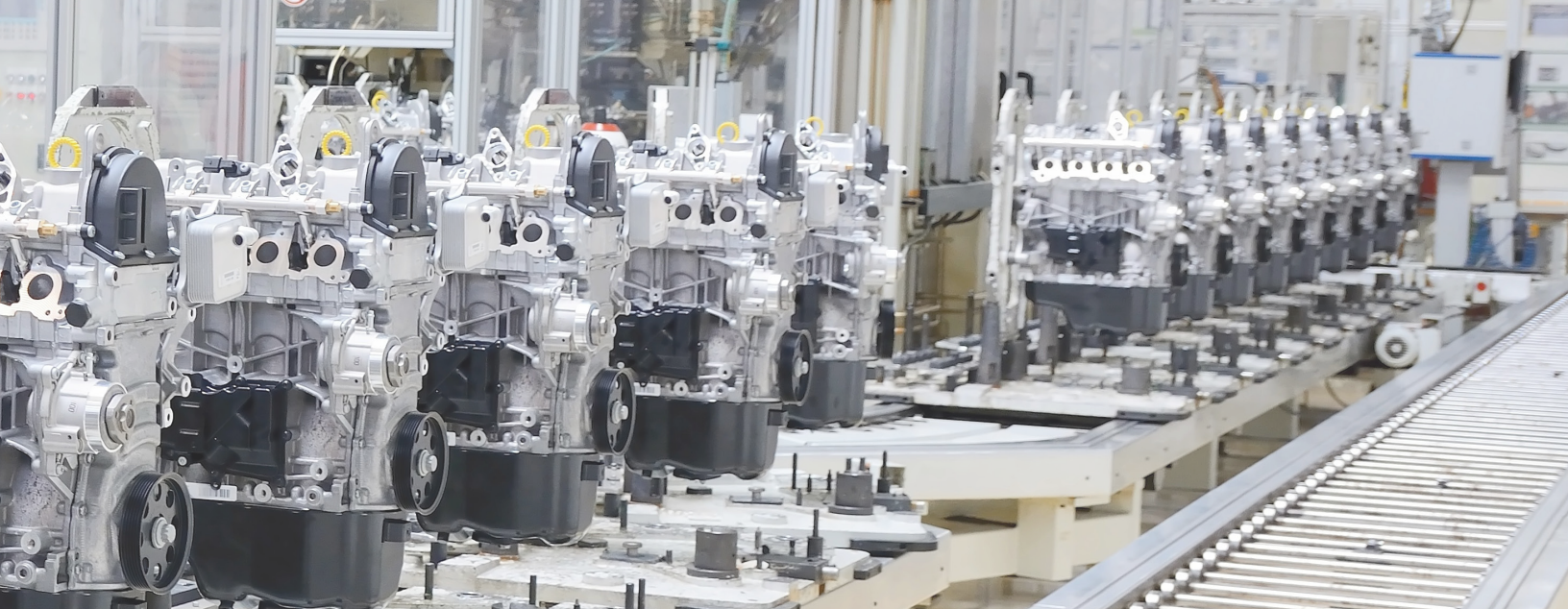
UNPARALLELED SERVICE & SUPPORT

No competitor can match our dedication to service and support. With 10 business day shipping on all models and 10 business day turnaround on all repairs, APT keeps your business up and running with minimal down-time.

TRADE-IN & TRADE-UP

We are proud to have a generous and responsible trade-in program. It is our little way of saying thanks for continuing to use our instruments. Simply send us your old instrument and we'll give you a credit towards your purchase. We accept any brand, make or model towards your trade-in discount of your new APT instrument.*

*Offer only available in North America.



PowerTRAC™ AC Power Source Control and Data Capture Software



Our new PowerTRAC software takes the industry standard Power Source control software to the next level with data capture. Quickly export your test results to an Excel spreadsheet and improve traceability.

- Complete control from anywhere
- Real world simulation of voltage and frequency
- Visually see what your output and transients look like

AVAILABLE AS A FREE DOWNLOAD!



3-Year Warranty

Your new instrument includes a standard 3-Year warranty. This guarantees your new product to be free from defects in workmanship for the appropriate warranty period. There is no cost for this warranty and no requirements for calibration or inspection.



Customer Happiness Guarantee

Our Customer Happiness Guarantee ensures we keep you completely satisfied throughout your entire purchasing experience with us. From selecting the right product for your application to support and training, we guarantee your experience will be nothing less than excellent. If for ANY reason you're not completely satisfied with your experience, you can simply return your instrument within 45 days of purchase for a full refund.



10 Day Guaranteed Shipment

Every APT power source ships from our facility within 10 business days of purchase. If we ship late, we will cover ground shipping (Domestic U.S. shipments only).



Responsive Turnarounds on Calibrations and Repairs

We offer 10 business day turnaround on all calibrations and repairs. If your instrument needs a repair, we use a Flat Rate Repair schedule to streamline the process for you, our valued customer. If we do not meet our 10 day turnaround, we'll cover your return freight.

Product Reference Chart

| Model | Output Power Capability | | | | | | | | | Output Configurations | | |
|----------|-------------------------|-------|-------|-------|-------|-------|-------|--------|--------|-----------------------|-----------------------------------|---------|
| | 500 VA | 1 kVA | 2 kVA | 3 kVA | 4 kVA | 6 kVA | 8 kVA | 12 kVA | 18 kVA | 1 Phase | Split 1 Phase (2 Lines/1 Neutral) | 3 Phase |
| 105 | ● | | | | | | | | | ● | | |
| LS1000** | | ● | | | | | | | | ● | | |
| 5005 | ● | | | | | | | | | ● | | |
| 5010 | | ● | | | | | | | | ● | | |
| 5020 | | | ● | | | | | | | ● | | |
| 5040 | | | | | ● | | | | | ● | | |
| 6005 | ● | | | | | | | | | ● | | |
| 6010 | | ● | | | | | | | | ● | | |
| 6020 | | | ● | | | | | | | ● | | |
| 6040 | | | | | ● | | | | | ● | | |
| 7004 | ● | | | | | | | | | ● | | |
| 7008 | | ● | | | | | | | | ● | | |
| 7016 | | | ● | | | | | | | ● | | |
| 7040 | | | | | ● | | | | | ● | | |
| 310XAC | | ● | x2 | x3 | | | | | | x1 | x2 | x3 |
| 320XAC | | | ● | | x2 | x3 | | | | x1 | x2 | x3 |
| 340XAC | | | | | ● | | x2 | x3 | | x1 | x2 | x3 |
| 360XAC | | | | | | ● | | x2 | x3 | x1 | x2 | x3 |
| 430XAC | | | | ● | | | | | | ● | ● | ● |
| 460XAC | | | | | | ● | | | | ● | ● | ● |

Product Reference Chart

| Model | Output Capabilities of V, Hz & A | | | General Features | | |
|----------|----------------------------------|------------------------|--------------------------------|------------------|---------|--------------------|
| | Voltage Output Max | Frequency Output Range | Max A @ ≤110V/220V (per phase) | PC Control | CE Mark | Free GUI Available |
| 105 | 300 | 50/60 | 4.6A/2.3A | | | |
| LS1000** | 300 | 40-500 | 8.4A/4.2A | | ● | |
| 5005 | 300 | 40-450 | 4.6A/2.3A | | | |
| 5010 | 300 | 40-450 | 9.2A/4.6A | | | |
| 5020 | 300 | 40-450 | 18.4A/9.2A | | | |
| 5040 | 300 | 40-450 | 36.8A/18.4A | | | |
| 6005 | 300 | 40-500 | 4.6A/2.3A | ● | | ● |
| 6010 | 300 | 40-500 | 9.2A/4.6A | ● | | ● |
| 6020 | 300 | 40-500 | 18.4A/9.2A | ● | | ● |
| 6040 | 300 | 40-500 | 36.8A/18.4A | ● | | ● |
| 7004 | 300 | 40-500 | 4.6A/2.3A | ● | ● | ● |
| 7008 | 300 | 40-500 | 9.2A/4.6A | ● | ● | ● |
| 7016 | 300 | 40-500 | 18.4A/9.2A | ● | ● | ● |
| 7040 | 300 | 40-500 | 36.8A/18.4A | ● | ● | ● |
| 310XAC | 300/600/520* | 40-1000 | 9.2A/4.6A | ● | ● | ● |
| 320XAC | 300/600/520* | 40-1000 | 18.4A/9.2A | ● | ● | ● |
| 340XAC | 300/600/520* | 40-1000 | 36.8A/18.4A | ● | ● | ● |
| 360XAC | 300/600/520* | 40-1000 | 55.2A/27.6A | ● | ● | ● |
| 430XAC | 300/600/520* | 40-1000 | 9.2A/4.6A | ● | ● | ● |
| 460XAC | 300/600/520* | 40-1000 | 18.4A/9.2A | ● | ● | ● |

x2 = the number of sources required to achieve an output rating.
x3 = the number of sources required to achieve an output rating and 3 phase.
300/600/520* = 300V phase 10, 600V split 10, 520V 30
** = Linear power sources

400XAC Series

3 Phase AC Power Sources

With a unique feature set and competitive price point, our 400XAC Series provides 3Ø AC power in a single box. Our exclusive SmartCONFIG feature allows you to switch from 1Ø to 3Ø or DC output with the push of a button. This maximizes your investment while giving you the AC power that your application needs. The 400XAC Series consists of two models: the 430XAC is a 3 kVA AC power source and the 460XAC is a 6 kVA AC power source.

Features

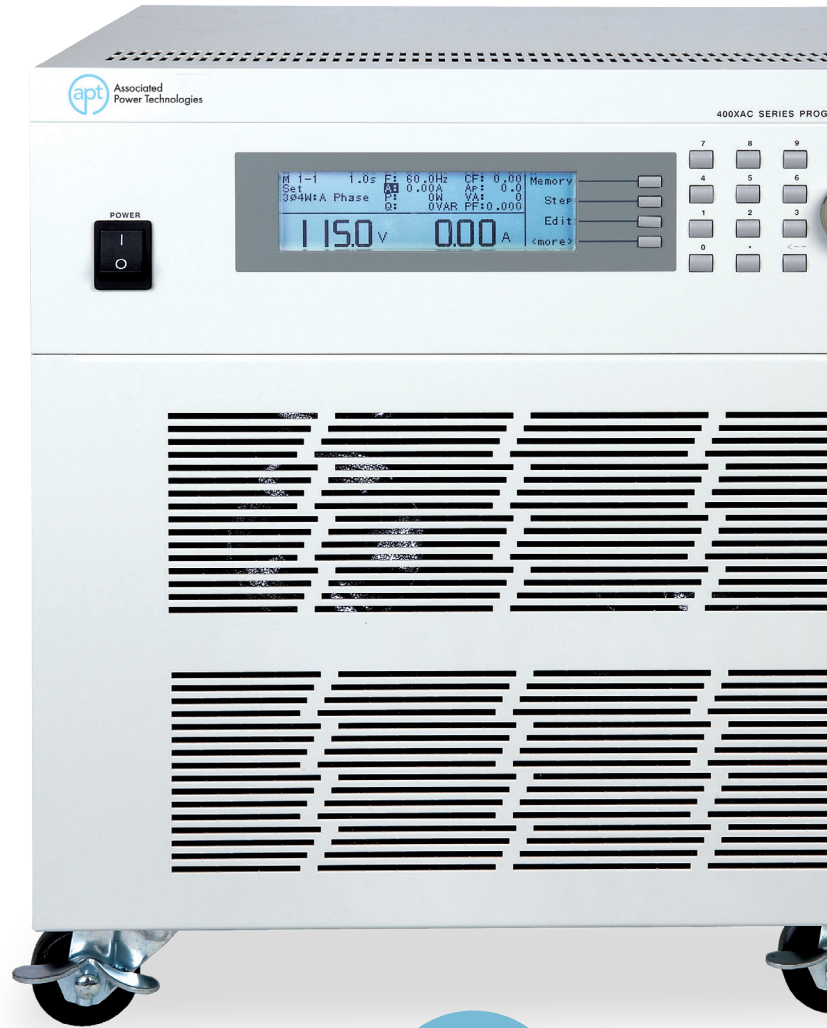
- Exclusive SmartCONFIG feature allows for push button switch of 1Ø, 3Ø, or DC output
- Single phase input power requirements
- 50 built-in memory locations with 9 test steps
- Built-in power factor correction (PFC)
- Advanced metering circuits monitor voltage, current, peak current, power, apparent power, reactive power, power factor, and crest factor
- External voltage sensing for accurate metering
- Transient feature simulates voltage variations, brownouts, and transient voltage conditions
- Programmable starting and ending angle of the output sine wave
- Rack mount handle kit included

Standard

- USB/RS-232 Interface

Options

- GPIB Interface
- Ethernet Interface



 DRIVER AVAILABLE


PowerTRAC™ AVAILABLE

Applicable Industries



Aerospace



Appliance



Laboratory



Motor

APT Benefits



| INPUT | | 430XAC | 460XAC | | |
|---|------------|--|--|--|-------------------------------|
| Phase | | 1Ø | 1Ø or 3Ø | | |
| Voltage | | 200 - 240 VAC | 1Ø : 200~240 VAC ± 10% 3Ø3W : 200~240 VAC ± 10% 3Ø4W : 346~416 VAC ± 10% | | |
| Frequency | | 47 - 63 Hz | | | |
| AC OUTPUT | | | | | |
| Power Rating | | 1Ø2W | 3000 VA | 6000 VA | |
| | | 1Ø3W | Total 2000 VA (1000 VA per phase) | Total 4000 VA (2000 VA per phase) | |
| | | 3Ø4W | Total 3000 VA (1000 VA per phase) | Total 6000 VA (2000 VA per phase) | |
| | | DC | 3000 VA | 6000 VA | |
| Max. Current (RMS) | | 1Ø2W | 5- 150 V | 27.6 A @ ≤110 V | 55.2 A @ ≤110 V |
| | | | 5- 300 V | 13.8 A @ ≤220 V | 27.6 A @ ≤220 V |
| | | 1Ø3W | 5- 150 V | 9.2 A @ ≤110 V for per phase | 18.4 A @ ≤110 V for per phase |
| | | | 5- 300 V | 4.6 A @ ≤220 V for per phase | 9.2 A @ ≤220 V for per phase |
| | | 3Ø4W | 5- 150 V | 9.2 A @ ≤110 V for per phase | 18.4 A @ ≤110 V for per phase |
| | | | 5- 300 V | 4.6 A @ ≤220 V for per phase | 9.2 A @ ≤220 V for per phase |
| Inrush Current (peak) | | 1Ø2W | 5- 150 V | 110.4 A | 220.8 A |
| | | | 5- 300 V | 55.2 A | 110.4 A |
| | | 1Ø3W | 5- 150 V | 36.8 A for per phase | 73.6 A for per phase |
| | | | 5- 300 V | 18.4 A for per phase | 36.8 A for per phase |
| | | 3Ø4W | 5- 150 V | 36.8 A for per phase | 73.6 A for per phase |
| | | | 5- 300 V | 18.4 A for per phase | 36.8 A for per phase |
| | | Phase | | 1Ø2W, 1Ø3W, 3Ø4W, provided option | |
| | | THD (Total Harmonic Distortion) | | <0.5% (Resistive Load) at 40.0~70.0 Hz and output voltage within the 80~140 VAC at Low Range or the 160~280 VAC at High Range. <1% (Resistive Load) at 70.1~1000 Hz and output voltage within the 80~140 VAC at Low Range or the 160~280 VAC at High Range. | |
| Crest Factor | | ≥3 | | | |
| Line Regulation | | ± 0.1 V | | | |
| Load Regulation (Hardware) | | ± (1% of output +1 V) at Resistive Load, <400 µS response time | | | |
| Load Regulation (Software) | | ± 0.2 V, <1 S response time | | | |
| DC offset | | ≤ ± 5 mV | | | |
| Poly-phase mode (3Ø4W) for per phase output setting | | 430XAC | 460XAC | | |
| Voltage | Range | 5.0~300 VAC (phase), 8.6~520 VAC (line), 150/300 V Auto Range | | | |
| | Accuracy | ± (0.2% of setting + 3 counts) | | | |
| Frequency | Range | 40~1000 Hz Full Range Adjust | | | |
| | Accuracy | ± 0.03% of setting | | | |
| Starting & Ending Phase Angle | Range | 0~359° | | | |
| | Accuracy | ±1°(45~65 HZ) | | | |
| Current Hi Limit | 5V~150 V | 0.01~9.20 A | 0.01~18.40 A | | |
| | 5V~300 V | 0.01~4.60 A | 0.01~9.20 A | | |
| | Accuracy | ± (2.0% of setting + 2 counts) | | | |
| OC Fold Back Response Time | | <1.4 s | | | |
| Ramp-Up Timer (second) | Range | 0.0~999.9 s | | | |
| | Accuracy | ± (0.1% + 0.05 sec) | | | |
| Ramp-Down Timer (second) | Range | 0.0~999.9 s | | | |
| | Accuracy | ± (0.1% + 0.05 sec) | | | |
| Delay Timer | Range | 1 s~999.9 s 0.1 m~999.9 min 0.1 h~999.9 h | | | |
| | Accuracy | ± (0.1% + 0.1 sec) | | | |
| Dwell Timer | Range | 0, 1s~999.9 h (0=continuous) | | | |
| | Accuracy | ± (0.1% + 0.1 sec) | | | |
| Poly-phase mode (3Ø4W) for per phase measurement | | 430XAC | 460XAC | | |
| Frequency | Range | 0.0-1000 Hz | | | |
| | Resolution | 0.1 Hz | | | |
| | Accuracy | ± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz) | | | |
| Voltage | Range | 0.0-420.0 V | | | |
| | Resolution | 0.1 V | | | |
| | Accuracy | ± (0.2% of reading + 3 counts) | | | |

Specifications – 400XAC Series

| Poly-phase mode (3Ø4W) for per phase measurement | | | 430XAC | 460XAC |
|--|--------------------|--|---|---|
| Current (RMS) | Range | L | 0.005 A~1.200 A | 0.005 A~2.400 A |
| | | H | 1.00 A~13.00 A | 2.00 A~26.00 A |
| | Accuracy | L | ± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A | ± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A |
| | | H | ± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤27.6 A | ± (1% of reading +5 counts) at 40.0-500 Hz ± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤55.2 A |
| Current (peak) | Range | 0.0 A~38.0 A | 0.0 A~76.0 A | |
| | Accuracy | ± (1% of reading + 5 counts) at 40.0-70.0 Hz ± (1.5% of reading + 10 counts) at 70.1 - 500 Hz ± (1.5% of reading + 10 counts) at 501 - 1000 Hz and CF <1.5 | | |
| Power | Range | L | 0.0 W~120.0 W | 0.0 W~240.0 W |
| | | H | 100 W~1300 W | 200 W~2600 W |
| | Accuracy | L | ± (2% of reading +15 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +30 counts) at 501-1000 Hz and PF ≥0.5 | |
| | | H | ± (2% of reading +5 counts) at 40.0-500 Hz and PF ≥0.2 ± (2% of reading +15 counts) at 501-1000 Hz and PF ≥0.5 | |
| Power Factor | Range | 0 - 1.000 | | |
| | Accuracy | W / VA, Calculated and displayed to three significant digits | | |
| Power Apparent (VA) | Range | L | 0.0 VA~120.0 VA | 0.0 VA~240.0 VA |
| | | H | 100 VA~1300 VA | 200 VA~2600 VA |
| Accuracy | | V×A, Calculated value | | |
| Power Reactive (Q) | Range | L | 0.0 VAR ~ ± 120.0 VAR | 0.0 VAR ~ ± 240.0 VAR |
| | | H | 0 VAR ~ ± 1300 VAR | 0 VAR ~ ± 2600 VAR |
| Accuracy | | $\sqrt{(VA)^2 - (W)^2}$, Calculated value | | |
| Crest Factor | Range | 0 - 10.00 | | |
| | Accuracy | Ap / A, Calculated and displayed to two significant digits | | |
| Poly-phase mode (3Ø4W) for Σ measurement | | | 430XAC | 460XAC |
| Frequency | Range | 0.0-1000.0 Hz | | |
| | Accuracy | ± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz) | | |
| Voltage | Range | 0.0-727.5 V | | |
| | Calculated Formula | $(A+B+C)/\sqrt{3}$, Calculated and displayed to one significant digits | | |
| Current (RMS) | Range | L | 0.005A~1.200A | 0.005A~2.400A |
| | | H | 1.00A~13.00A | 2.00A~26.00A |
| | Calculated Formula | L | $\frac{\sum VA}{\sum V} / \sqrt{3}$ | |
| | | H | | |
| Power | Range | L | 0.0W~360.0W | 0.0W~720.0W |
| | | H | 300W~3900W | 600W~7800W |
| | Accuracy | L | A Power + B Power + C Power, Calculated value | |
| | | H | | |
| Power Factor | Range | 0 - 1.000 | | |
| | Resolution | 0.001 | | |
| | Accuracy | $\frac{\sum P}{\sum VA}$ Calculated and displayed to three significant digits | | |
| Power Apparent (VA) | Range | L | 0.0VA~360.0VA | 0.0VA~720.0VA |
| | | H | 300VA~3900VA | 600VA~7800VA |
| | Calculated Formula | L | $\sqrt{(\sum W)^2 + (\sum Q)^2}$ | |
| | | H | | |
| Power Reactive (Q) | Range | L | 0.0VAR~360.0VAR | 0.0VAR~720.0VAR |
| | | H | 300VAR~3900VAR | 600VAR~7800VAR |
| | Accuracy | L | A VAR + B VAR + C VAR, Calculated value | |
| | | H | | |
| Single-phase mode (1Ø2W) Setting | | | 430XAC | 460XAC |
| Voltage | Range | 5.0~300 VAC, 150/300 V Auto Range | | |
| | Resolution | 0.1 V | | |
| | Accuracy | ± (0.2% of setting + 3 counts) | | |

| Single-phase mode (1Ø2W) Setting | | 430XAC | 460XAC | |
|---|------------|--|---|--|
| Frequency | Range | 40~1000 Hz Full Range Adjust | | |
| | Resolution | 0.1 Hz at 40.0~99.9 Hz, 1 Hz at 100~1000 Hz | | |
| | Accuracy | ± 0.03% of setting | | |
| Starting & Ending Phase Angle | Range | 0~359° | | |
| | Resolution | 1° | | |
| | Accuracy | ± 1°(45~65 HZ) | | |
| Current Hi Limit | 5V~150V | 0.01~27.60 A | 0.01~55.20 A | |
| | 5V~300V | 0.01~13.80 A | 0.01~27.60 A | |
| | Accuracy | ± (2.0% of setting + 2 counts) | | |
| OC Fold Back Response Time | | < 1.4 s | | |
| Single-phase mode (1Ø2W) measurement | | 430XAC | 460XAC | |
| Frequency | Range | 0.0~1000 Hz | | |
| | Accuracy | ± 0.1 Hz (501~1000 Hz Accuracy ±0.2 Hz) | | |
| Voltage | Range | 0.0~420.0 V | | |
| | Accuracy | ± (0.2% of reading + 3 counts) | | |
| Current (RMS) | Range | 0.05 A~39.00 A | 0.05 A~78.00 | |
| | Accuracy | ± (1% of reading + 5 counts) at 40.0~500 Hz ± (1% of reading + 5 counts) at 501~1000 Hz, CF <1.5 and Current (peak) ≤82.8 A | ± (1% of reading + 5 counts) at 40.0~500 Hz ± (1% of reading + 5 counts) at 501~1000 Hz, CF <1.5 and Current (peak) ≤165.6 A | |
| Current (peak) | Range | 0.0 A~114.0 A | 0.0 A~228.0 A | |
| | Accuracy | ± (1% of reading + 5 counts) at 40.0~70.0 Hz ± (1.5% of reading + 10 counts) at 70.1~500 Hz ± (1.5% of reading + 10 counts) at 501~1000 Hz and CF <1.5 | | |
| Power | Range | 0 W~3900 W | 0 W~7800 W | |
| | Accuracy | ± (2% of reading + 5 counts) at 40.0~500 Hz and PF ≥0.2 ± (2% of reading + 15 counts) at 501~1000 Hz and PF ≥0.5 | | |
| Power Factor | Range | 0 - 1.000 | | |
| | Accuracy | W / VA, Calculated and displayed to three significant digits | | |
| Power Apparent | Range | 0 VA~3900 VA | 0 VA~7800 VA | |
| | Accuracy | V×A, Calculated value | | |
| Power Reactive (Q) | Range | 0 VAR~3900 VAR | 0 VAR~7800 VAR | |
| | Accuracy | $\sqrt{(VA)^2 - (W)^2}$, Calculated value | | |
| Crest Factor | Range | 0 - 10.00 | | |
| | Accuracy | Ap / A, Calculated and displayed to two significant digits | | |
| Poly-phase mode (1Ø3W) for per phase output setting | | 430XAC | 460XAC | |
| Voltage | Range | 5.0~300 VAC (phase), 10.0~600 VAC (line), 150/300 V Auto Range | | |
| | Accuracy | ± (0.2% of setting + 3 counts) | | |
| Frequency | Range | 40~1000 Hz Full Range Adjust | | |
| | Accuracy | ± 0.03% of setting | | |
| Starting & Ending Phase Angle | Range | 0~359° | | |
| | Accuracy | ± 1°(45~65 HZ) | | |
| Current RI Limit | 5V~150V | 0.01~9.20 A | 0.01~18.40 A | |
| | 5V~300V | 0.01~4.60 A | 0.01~9.20 A | |
| | Accuracy | ± (2.0% of setting + 2 counts) | | |
| OC Fold Back Response Time | | <1.4 s | | |
| Poly-phase mode (1Ø3W) for per phase measurement | | 430XAC | 460XAC | |
| Frequency | Range | 0.0-1000 Hz | | |
| | Accuracy | ± 0.1 Hz (501-1000 Hz Accuracy ±0.2 Hz) | | |
| Voltage | Range | 0.0-420.0 V | | |
| | Accuracy | ± (0.2% of reading + 3 counts) | | |
| Current (RMS) | Range | L | 0.005 A~1.200 A | 0.005 A~2.400 A |
| | | H | 1.00 A~13.00 A | 2.00 A~26.00 A |
| | Accuracy | L | ± (1% of reading + 5 counts) at 40.0-500 Hz ± (1% of reading + 5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A | ± (1% of reading + 5 counts) at 40.0-500 Hz ± (1% of reading + 5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A |
| | | H | ± (1% of reading + 5 counts) at 40.0-500 Hz ± (1% of reading + 5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤27.6 A | ± (1% of reading + 5 counts) at 40.0-500 Hz ± (1% of reading + 5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤55.2 A |

Specifications – 400XAC Series

| Poly-phase mode (1Ø3W) for per phase measurement | | | 430XAC | 460XAC | |
|--|--------------------|---|---|-------------------------------|--|
| Current (peak) | Range | | 0.0 A~38.0 A | 0.0 A~76.0 A | |
| | Accuracy | | $\pm (1\% \text{ of reading} + 5 \text{ counts})$ at 40.0-70.0 Hz $\pm (1.5\% \text{ of reading} + 10 \text{ counts})$ at 70.1-500 Hz $\pm (1.5\% \text{ of reading} + 10 \text{ counts})$ at 501-1000 Hz and CF <1.5 | | |
| Power | Range | L | 0.0 W~120.0 W | 0.0 W~240.0 W | |
| | | H | 100 W~1300 W | 200 W~2600 W | |
| | Accuracy | L | $\pm (2\% \text{ of reading} + 15 \text{ counts})$ at 40.0-500 Hz and PF ≥ 0.2 $\pm (2\% \text{ of reading} + 30 \text{ counts})$ at 501-1000 Hz and PF ≥ 0.5 | | |
| | | H | $\pm (2\% \text{ of reading} + 5 \text{ counts})$ at 40.0-500 Hz and PF ≥ 0.2 $\pm (2\% \text{ of reading} + 15 \text{ counts})$ at 501-1000 Hz and PF ≥ 0.5 | | |
| Power Factor | Range | | 0 - 1.000 | | |
| | Accuracy | | W / VA, Calculated and displayed to three significant digits | | |
| Power Apparent (VA) | Range | L | 0.0 VA~120.0 VA | 0.0 VA~240.0 VA | |
| | | H | 100 VA~1300 VA | 200 VA~2600 VA | |
| | Accuracy | | VxA, Calculated value | | |
| Power Reactive (Q) | Range | L | 0.0 VAR~120.0 VAR | 0.0 VAR~240.0 VAR | |
| | | H | 0 VAR~1300 VAR | 0 VAR~2600 VAR | |
| | Accuracy | | $\sqrt{(VA)^2 - (W)^2}$, Calculated value | | |
| Crest Factor | Range | | 0-10.00 | | |
| | Accuracy | | Ap / A, Calculated and displayed to two significant digits | | |
| Poly-phase mode (1Ø3W) for L1-L2 measurement | | | 430XAC | 460XAC | |
| Frequency | Range | | 0.0-1000.0 Hz | | |
| | Accuracy | | ± 0.1 Hz (501-1000 Hz Accuracy ± 0.2 Hz) | | |
| Voltage | Range | | 0.0-840.0V | | |
| | Accuracy | | L1 Voltage + L2 Voltage, Calculated and displayed to one significant digits | | |
| Current (RMS) | Range | L | 0.005A~1.200A | 0.005A~2.400A | |
| | | H | 1.00A~13.00A | 2.00~26.00A | |
| | Calculated Formula | L | $\frac{\sum I^2}{\sum I}$ | | |
| | | H | | | |
| Power | Range | L | 0.0W~240.0W | 0.0W~480.0W | |
| | | H | 200W~2600W | 400W~5200W | |
| | Accuracy | L | L1 Power + L2 Power, Calculated value | | |
| | | H | | | |
| Power Factor | Range | | 0 - 1.000 | | |
| | Calculated Formula | | (L1 P + L2 P) / (L1 VA + L2 VA), Calculated and displayed to three significant digits | | |
| Power Apparent (VA) | Range | L | 0.0W~240.0VA | 0.0W~480.0VA | |
| | | H | 200W~2600VA | $\pm 400W \sim 5200VA$ | |
| | Calculated Formula | L | $\sqrt{(\sum W)^2 + (\sum Q)^2}$ Calculated value | | |
| | | H | | | |
| Power Reactive (Q) | Range | L | 0.0VAR ~ $\pm 240.0VAR$ | 0.0VAR ~ $\pm 480.0VAR$ | |
| | | H | $\pm 200VAR \sim \pm 2600VAR$ | $\pm 400VAR \sim \pm 5200VAR$ | |
| | Calculated Formula | L | L1 VAR + L2 VAR, Calculated value | | |
| | | H | | | |
| DC OUTPUT | | | | | |
| Max. Power | | | 3000 W | 6000 W | |
| Max. Current | 0-210 V | | 14.4 A | 28.8 A | |
| | 0-420 V | | 7.2 A | 14.4 A | |
| Ripple and Noise (RMS) | | | Range: 5-210 V <700 mV Range: 5-420 V <1100 mV | | |
| Ripple and Noise (p-p) | | | <4.0 Vp-p | | |
| DC SETTINGS | | | | | |
| Voltage | Range | | 5-210 V / 5-420 V Selectable | | |
| | Accuracy | | $\pm (0.2\% \text{ of setting} + 3 \text{ counts})$ | | |
| Current Hi Limit | 5 V-210 V | | 14.40 A | 0.10 - 28.80 A | |
| | 5 V-420 V | | 7.20 A | 0.10 - 14.40 A | |
| | Accuracy | | $\pm (2.0\% \text{ of setting} + 2 \text{ counts})$ | | |
| OC Fold Back Response Time | | | <1.4 s | | |

| DC MEASUREMENT | | 430XAC | 460XAC |
|----------------------------------|----------|---|---|
| Voltage | Range | 0.0-420.0 V | |
| | Accuracy | ± (0.2% of setting + 5 counts) | |
| Current | Range | 0.05 A~19.50 A | 0.05 A~39.00 A |
| | Accuracy | ± (1% of reading +5 counts) | |
| Power | Range | 0 W~3900 W | 0 W~7800 W |
| | Accuracy | ± (2% of reading +5 counts) | |
| PROTECTION | | | |
| Software OCP | | Over Current 110% of full rated current >1 second | |
| Output Short Shut Down Speed | | <1 second | |
| Software OPP | | When over Power 105 ~ 110% of full power >5 second. When over Power >110% of full power <1 second. | |
| Software OTP | | Temperature over 95 degree C on the power amp and PFC heatsink | Temperature over 120 degree C on the power amp and PFC heatsink |
| Software OVP | L | When output frequency < 100Hz, maximum voltage deviation + 5V When output frequency 101-500Hz, maximum voltage deviation + 15V When output frequency 501-1000Hz, maximum voltage deviation + 20V | |
| | H | When output frequency < 100Hz, maximum voltage deviation + 10V When output frequency 101-500Hz, maximum voltage deviation + 30V When output frequency 501-1000Hz, maximum voltage deviation + 40V | |
| Software LVP | L | When output frequency < 100Hz, maximum voltage deviation -5V > 0.5 second When output frequency 101-500Hz, maximum voltage deviation -15V > 0.5 second When output frequency 501-1000Hz, maximum voltage deviation -20V > 0.5 second | |
| | H | When output frequency < 100Hz, maximum voltage deviation -10V > 0.5 second When output frequency 101-500Hz, maximum voltage deviation -30V > 0.5 second When output frequency 501-1000Hz, maximum voltage deviation -40V > 0.5 second | |
| Reverse Current Protection (RCP) | | Over 75W | |
| GENERAL | | | |
| Transient (only for 40~70 Hz) | | Trans-Volt 0.0-300.0 V Resolution 0.1 V Trans-Site 0°~359° Resolution 1° Trans-Time 0.5-999.9 mS Resolution 0.1 mS Trans-Cycle 0-9999, 0-Constant | |
| Operation Key Feature | | Soft key, Numeric key, Rotary Knob | |
| Remote Input Signal | | Test, Reset, Interlock, Recall program memory 1 through 7 | |
| Remote Output Signal | | Pass, Fail, Test-in Process | |
| Key Lock | | Yes, Password Driven | |
| Memory | | 50 memories, 9 steps/memory | |
| Ext Trigger | | START / END / BOTH / OFF in the Program mode, Output Signal 5 V, BNC type | |
| Alarm Volume Setting | | Range: 0-9 ; 0 = OFF, 1 is softest volume, 9 is loudest volume. | |
| Graphic Display | | 240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1-9 | |
| PFC | | PF ≥0.97 at Full load | |
| Efficiency | | ≥78% (at Full load) | |
| Auto Loop cycle | | 0 = Continuous, OFF, 2~9999 | |
| Over Current Fold Back | | On/Off, Setting On when output current over setting Hi-A value it will fold back output voltage to keep constant output current is setting Hi-A value, Response time <1400ms | |
| Safety Agency | | CE Listed | |
| Dimensions (W x H x D) | | 430 x 400.5 x 500 mm | |
| | | 16.93 x 15.77 x 19.69 in | |
| Net Weight | | 105.8 lbs (48 kg) | 125.6 lbs (57 kg) |
| Operation Environment | | 0-40°/20-80% RH | |

Specifications subject to change

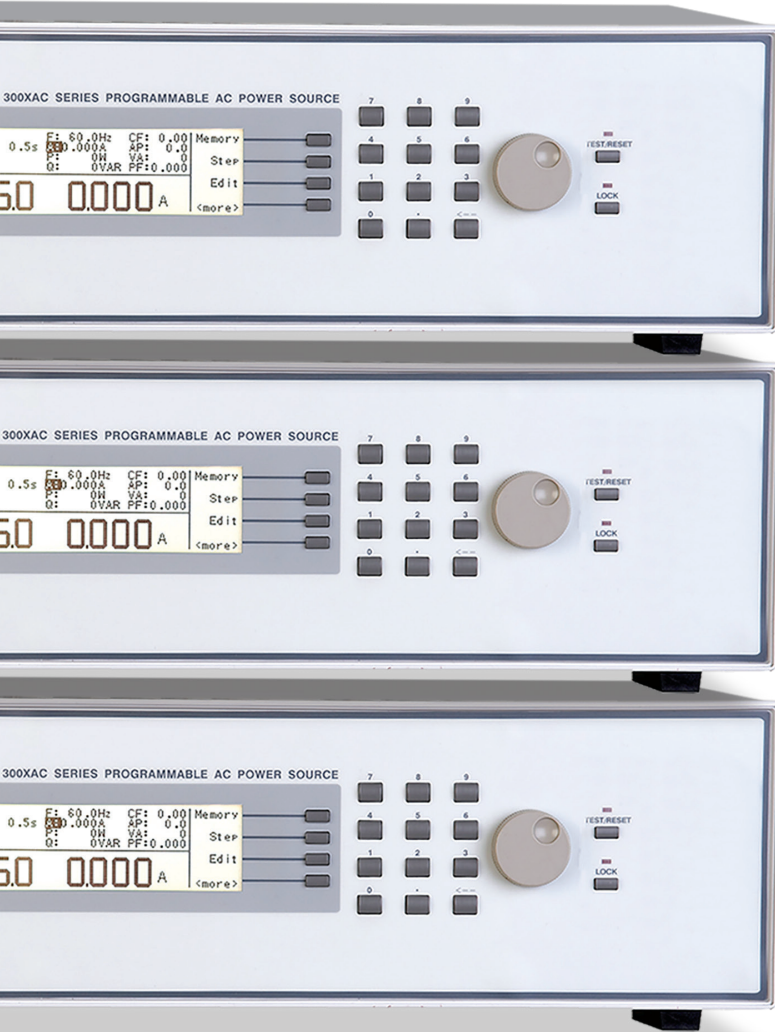
Why We Use Counts

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.

300XAC Series

Modular AC Power Sources

Our 300XAC Series modular AC power sources incorporate the latest in modular technology, making them ideal for the most demanding applications. These versatile AC power sources can be configured for 1Ø stand-alone operation or linked together for up to 16.2 kVA of AC power in 1Ø or up to 18 kVA of AC power in 3Ø output configurations.



Features

- Modular design allows operator to connect up to 3 instruments together for 1Ø or 3Ø applications requiring up to 18kVA of AC power
- Configure 2 sources for 1Ø/2W output voltages up to 600VAC
- 50 built-in memory locations with 9 test steps
- Standard DC output capability
- Transient feature simulates voltage variations, brownouts, and transient voltage conditions
- Constant current output with over current fold back feature
- Rack mount handle kit included

Standard

- USB/RS-232 Interface

Options

- Grounded Neutral
- Ethernet Interface
- GPIB Interface
- Linking Card
- 7 Remote Memories



NI LabVIEW

DRIVER AVAILABLE

Applicable



Aerospace



Appliance



Laboratory



Networking



System Integrator

APT Benefits



The Modular AC Source Advantage

What is a modular AC power source?

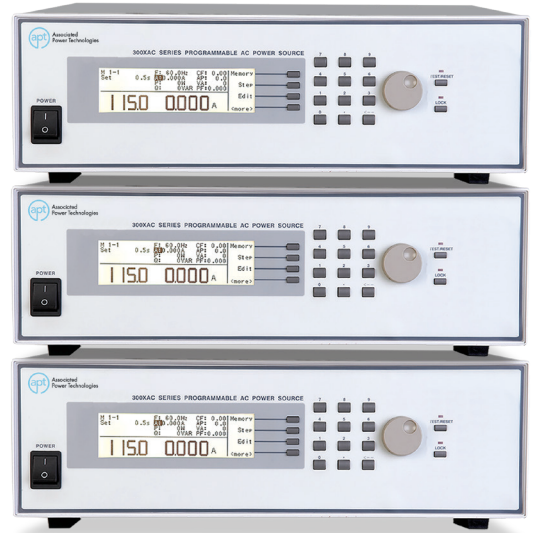
We use the term modular to define the capability of our 300XAC Series to be interconnected. The interconnection among up to three individual 300XAC Series Power Sources, allows for higher power outputs and different power configurations than an individual instrument could allow for Parallel or Polyphase modes.

What is Parallel mode?

Parallel mode allows the operator to increase the output current of the system by a factor of 2 or 3 depending on the number of sources that are interconnected.

What is Polyphase mode?

Polyphase mode allows the operator to increase the total power output of the system as well as change the output power configuration of the system.



Advantages

SmartDETECT

This exclusive feature automatically determines how many power sources are linked together. After the check is completed the 300XAC Series will automatically change the programming output function based on the number of linked sources.

SmartCONFIG Feature

This exclusive feature allows the operator to easily change the output of the linked sources to Parallel or Polyphase mode with the push of a button.

Master/Slave Relationship

The master/slave relationship between linked 300XAC instruments synchronizes the firmware of each power source so the output and phase angle separation is regulated. It also gives the operator the capability to program parameters for all linked sources from the front panel of the master instrument.

Exclusive Linking Card (option 08)

With the Linking Card option installed, up to three 300XAC instruments can be interconnected for Parallel or Polyphase output.

Benefits

- Easy to change from 1Ø to 3Ø output
- No need to have separate sources for 1Ø to 3Ø applications
- Allows for future expansion if power requirements change
- Greater mobility of the AC power sources
- Ability to generate 3Ø power if only 1Ø is available

Make Linking Your 300XAC A Breeze.
Download our Linking Guide at aptsources.com/300XAC

Specifications – 300XAC Series

| INPUT | | 310XAC | 320XAC | 340XAC | 360XAC |
|-------------------------------|--------------------|---|-------------------------|---|--|
| Phase | | 1Ø | | | 1Ø or 3Ø |
| Voltage | | 100 - 240 VAC ±10% | | 200 - 240 VAC ±10% | 1Ø: 200 - 240 VAC ±10% 3Ø3W: 200 - 240 VAC ±10% 3Ø4W: 346 - 416 VAC ±10% |
| Frequency | | 47 - 63 Hz | | | |
| OUTPUT | | | | | |
| Voltage | | 5 - 300 V | | | |
| Max Power | | 1 kVA | 2 kVA | 4 kVA | 6 kVA |
| Max Current 1Ø | 0 - 150 V | 9.2 A @ ≤110 V | 18.4 A @ ≤110 V | 36.8 A @ ≤110 V | 55.2 A @ ≤110 V |
| | 0 - 300 V | 4.6 A @ ≤220 V | 9.2 A @ ≤220 V | 18.4 A @ ≤220 V | 27.6A @ ≤220 V |
| Phase | | 1Ø (Parallel/Poly-Phase Linking for 1Ø3W or 3Ø4W) | | | |
| Frequency | | 40.0 - 1000 Hz | | | |
| THD | | <1% (Resistive Load) | | | |
| Crest Factor | | Inrush CF ≥3 at 110 V, Continuous Current CF ≥3 at 110 V | | | |
| Line Regulation | | ± 0.1 V | | | |
| Load Regulation | | ± 0.5 V | | | |
| DC OUTPUT VOLTAGE | | | | | |
| Voltage | | 5 - 420 V | | | |
| Max Power | | 1000 W | 2000 W | 4000 W | 6000 W |
| Max Current 1Ø | 0 - 210 V | 4.8 A | 9.6 A | 19.2 A | 28.8 A |
| | 0 - 420 V | 2.4 A | 4.8 A | 9.6 A | 14.4 A |
| Ripple & Noise (Peak to Peak) | | <3.0 V | | <4.0 V | |
| MEASUREMENT | | | | | |
| Voltage | Range | 0.0 - 400.0 V | | | |
| | Accuracy | ± (1% of reading + 2 counts) >5 V | | ± (1% of reading + 5 counts) >5 V | |
| Frequency | Range | 0.0 - 1000 Hz | | | |
| | Accuracy | 0.0 - 500 Hz ± 0.1 Hz, 501 - 1000 Hz ± 0.2 Hz | | | |
| Current (RMS) | Range | 0.005 A - 13.00 A | 0.005 A - 26.00 A | 0.05 A - 52.00 A | 0.05 A - 78.00 A |
| | Accuracy | ± (1% of reading + 5 counts) | | ± (1% of reading + 5 counts) @ 40 - 100 Hz, ± (1% of reading + 5 counts) @ 101 - 500 Hz >0.1 A, ± (1% of reading + 5 counts) @ 501 - 1000 Hz >0.2 A | |
| Current Peak | Range | 0.0 A - 38.0 A | 0.0 A - 76.0 A | 0.0 A - 152 A | 0.0 A - 228 A |
| | Accuracy | ± (1% of reading + 5 counts) | | | |
| Power | Range | 0.0 W - 1300 W | 0.0 W - 2600 W | 0.0 W - 5200 W | 0.0 W - 7800 W |
| | Accuracy | L | | ± (2% of reading + 5 counts) at PF ≥0.2 | |
| | | H | | ± (2% of reading + 5 counts) at PF ≥0.2 | |
| Power Apparent (VA) | Range | 0.0 VA - 1300 VA | 0.0 VA - 2600 VA | 0.0 VA - 5200 VA | 0.0 VA - 7800 VA |
| | Calculated Formula | V×A, Calculated value | | | |
| Power Reactive (Q) | Range | 0.0 VAR - 1300 VAR | 0.0 VAR - 2600 VAR | 0.0 VAR - 5200 VAR | 0.0 VAR - 7800 VAR |
| | Calculated Formula | $\sqrt{(VA)^2 - (W)^2}$, Calculated value | | | |
| Power Factor | Range | 0.000 - 1.000 | | | |
| | Calculated Formula | W/VA, Calculated and displayed to three significant digits | | | |
| Crest Factor | Range | 0.0 - 10.0 | | | |
| | Accuracy | A peak / Arms, Calculated and displayed to two significant digits | | | |
| OPTIONS | | | | | |
| Grounded Neutral | Option 2 | All Models | | | |
| GPIB Interface | Option 3 | All Models | | | |
| 7 Remote Memory | Option 4 | All Models | | | |
| Ethernet Interface | Option 6 | All Models | | | |
| Linking Card | Option 8 | All Models | | | |
| GENERAL | | | | | |
| Operation Environment | | 0 - 40°C / 20 - 80% RH | | | |
| Dimensions (W x H x D) | | 16.92 x 5.26 x 20.87 in | 16.92 x 5.26 x 20.87 in | 16.92 x 10.51 x 19.69 in | 16.92 x 15.77 x 19.69 in |
| | | 430 x 133.5 x 530 mm | 430 x 133.5 x 530 mm | 430 x 267 x 500 mm | 430 x 400.5 x 500 mm |
| Net Weight | | 47.16 lbs (21 kg) | 49 lbs (22 kg) | 82 lbs (37 kg) | 117 lbs (53 kg) |

| Linking Parallel Output 1Ø2W | | | 310XAC | 320XAC | 340XAC | 360XAC |
|---------------------------------|-----------|------|-------------------------------------|------------------------|------------------------|-------------------------|
| Linked Unit | | | 2 - 3 Units, 1Ø2W (L1 - N) | | | |
| Voltage | Phase | | 5 - 300 V | | | |
| Power Max | # Units | 2 | 1.8 kVA | 3.6 kVA | 7.2 kVA | 10.8 kVA |
| | | 3 | 2.7 kVA | 5.4 kVA | 10.8 K 10.8 kVAAA | 16.2 kVA |
| Max Current Line (RMS) | 0 - 150 V | L(2) | 14.72 A @ 20 V - 110 V | 29.44 A @ 20 V - 110 V | 58.88 A @ 20V - 110 V | 88.32 A @ 20 V - 110 V |
| | | L(3) | 22.08 A @ 20 V - 110 V | 44.16 A @ 20 V - 110 V | 88.32 A @ 20 V - 110 V | 132.48 A @ 20 V - 110 V |
| | 0 - 300 V | H(2) | 7.36 A @ 20 V - 220 V | 14.72 A @ 20 V - 220 V | 29.44 A @ 20 V - 220 V | 44.16 A @ 20 V - 220 V |
| | | H(3) | 11.04 A @ 20 V - 220 V | 22.08 A @ 20 V - 220 V | 44.16 A @ 20 V - 220 V | 66.24 A @ 20 V - 220 V |
| Linking Polyphase Output 1Ø3W | | | 310XAC | 320XAC | 340XAC | 360XAC |
| Linked Units | | | 2 Units @ 180°, 1Ø3W (L1-L2 - N) | | | |
| Voltage | Phase | | 10 - 600 V | | | |
| | Line | | 5 - 300 V | | | |
| Power Max | Max | | 2 kVA | 4 kVA | 8 kVA | 12 kVA |
| Max Current Phase | 0 - 300 V | L(1) | 9.2 A @ ≤110 V | 18.4 A @ ≤110 V | 36.8 A @ ≤110 V | 55.2 A @ ≤110 V |
| | 0 - 600 V | H(1) | 4.6 A @ ≤220 V | 9.2 A @ ≤220 V | 18.4 A @ ≤220 V | 27.6 A @ ≤220 V |
| Max Current Line | 0 - 300 V | L(2) | 9.2 A @ ≤220 V | 18.4 A @ ≤220 V | 36.8 A @ ≤220 V | 55.2 A @ ≤220 V |
| | 0 - 600 V | H(2) | 4.6 A @ ≤440 V | 9.2 A @ ≤440 V | 18.4 A @ ≤440 V | 27.6 A @ ≤440 V |
| Linking Polyphase Output 3Ø4W | | | 310XAC | 320XAC | 340XAC | 360XAC |
| Linked Units | | | 3 Units @ 120°, 3Ø4W (L1-L2-L3 - N) | | | |
| Voltage | Phase | | 5 - 300 V | | | |
| | Line | | 5 - 520 V | | | |
| Power Max | Max | | 3 kVA | 6 kVA | 12 kVA | 18 kVA |
| Max Current Phase | 0 - 150 V | L(1) | 9.2 A @ ≤110 V | 18.4 A @ ≤110 V | 36.8 A @ ≤110 V | 55.2 A @ ≤110 V |
| | 0 - 300 V | H(1) | 4.6 A @ ≤220 V | 9.2 A @ ≤220 V | 18.4 A @ ≤220 V | 27.6 A @ ≤220 V |
| Max Current Line | 0 - 150 V | L(3) | 9.2 A @ ≤190.5 V | 18.4 A @ ≤190.5 V | 36.8 A @ ≤190.5 V | 55.2 A @ ≤190.5 V |
| | 0 - 300 V | H(3) | 4.6 A @ ≤381 V | 9.2 A @ ≤381 V | 18.4 A @ ≤381 V | 27.6 A @ ≤381 V |
| Max Current Phase Delta | 0 - 260 V | L(3) | 5.31 A @ ≤190.5 V | 10.62 A @ ≤190.5 V | 21.24 A @ ≤190.5 V | 31.87 A @ ≤190.5 V |
| | 0 - 520 V | H(3) | 2.65 A @ ≤381 V | 5.31 A @ ≤381 V | 10.62 A @ ≤381 V | 15.93 A @ ≤381 V |
| Linking Parallel DC Output 1Ø2W | | | 310XAC | 320XAC | 340XAC | 360XAC |
| Linked Units | | | 2 - 3 Units, 1Ø2W (L1 - N) | | | |
| Voltage Power | Line | | 5 - 420 V | | | |
| Power Max | # Units | 2 | 1.8 kVA | 3.6 kVA | 7.2 kVA | 10.8 kVA |
| | | 3 | 2.7 kVA | 5.4 kVA | 10.8 kVA | 16.2 kVA |
| Max Current Line | 0 - 210 V | L(2) | 7.68 A @ 50 V - 210 V | 15.36 A @ 50 V - 210 V | 30.72 A @ 50 V - 210 V | 46.08 A @ 50 V - 210 V |
| | | L(3) | 11.52 A @ 50 V - 210 V | 23.04 A @ 50 V - 210 V | 46.08 A @ 50 V - 210 V | 69.12 A @ 50 V - 210 V |
| | 0 - 420 V | H(2) | 3.84 A @ 50 V - 420 V | 7.68 A @ 50 V - 420 V | 15.36 A @ 50 V - 420 V | 23.04 A @ 50 V - 420 V |
| | | H(3) | 5.76 A @ 50 V - 420 V | 11.52 A @ 50 V - 420 V | 23.04 A @ 50 V - 420 V | 34.56 A @ 50 V - 420 V |

Specifications – 300XAC Series

| Measurement (Total) Linking Parallel 1Ø2W | | | 310XAC | 320XAC | 340XAC | 360XAC | |
|---|----------|---|--|------------------|--|------------------|--|
| Voltage | Range | | 0.0 - 400.0 V | | | | |
| | Accuracy | | ± (1% of reading + 2 counts) >5 V | | ± (1% of reading + 5 counts) >5 V | | |
| Frequency | Range | | 0.0 - 1000.0 Hz | | | | |
| | Accuracy | L | ± 0.1 Hz @ 0.0 - 500 Hz | | | | |
| | | H | ± 0.2 Hz @ 501 - 1000 Hz | | | | |
| Current (RMS) | Range | 2 | 0.00 A - 26.00 A | 0.00 A - 52.00 A | 0.00 A - 104.0 A | 0.00 A - 156.0 A | |
| | | 3 | 0.00 A - 39.00 A | 0.00 A - 78.00 A | 0.00 A - 156.0 A | 0.00 A - 234.0 A | |
| | Accuracy | L | ± (1.5% of reading +15 counts) x # of Linked Units @ 40.0 - 70.0 Hz & Current is >1.0 A | | ± (1.5% of reading +15 counts) x Link Units @ 40.0 - 70.0 Hz and Current (RMS) >2.00 A, ± (1.5% of reading +15 counts) x Link Units @ 70.1 - 1000 Hz, and Current (RMS) >10.00 A | | ± (1.5% of reading +15 counts) x Link Units @ 40.0 - 70.0 Hz and Current (RMS) >3.00 A, ± (1.5% of reading +15 counts) x Link Units @ 70.1 - 1000 Hz, and Current (RMS) >15.00 A |
| | | H | ± (1.5% of reading +15 counts) x # of Linked Units @ 70.1- 1000 Hz & Current is >5.00 A | | | | |
| Power (W) | Range | 2 | 0 W - 2600 W | 0 W - 5200 W | 0 W -10400 W | 0 W - 15600 W | |
| | | 3 | 0 W - 3900 W | 0 W - 7800 W | 0 W - 15600 W | 0 W - 23400 W | |
| | Accuracy | | ± (2% of reading + 10 counts) x (# of Linked Units) at PF ≥0.2, 40 - 500 Hz, and Current >5.0 A ± (2% of reading + 10 counts) x (# of Linked Units) at PF ≥0.3, 501 - 1000 Hz, and Current >5.0 A | | | | |
| Power Apparent (VA) | Range | 2 | 0 W - 2600 VA | 0 W - 5200 VA | 0 W -10400 VA | 0 W - 15600 VA | |
| | | 3 | 0 W - 3900 VA | 0 W - 7800 VA | 0 W - 15600 VA | 0 W - 23400 VA | |
| | Accuracy | | V x A, Calculated Value | | | | |
| Power Reactive (Q) | Range | 2 | 0 W - 2600 VA | 0 W - 5200 VA | 0 W -10400 VA | 0 W - 15600 VA | |
| | | 3 | 0 W - 3900 VA | 0 W - 7800 VA | 0 W - 15600 VA | 0 W - 23400 VA | |
| | Accuracy | | $\sqrt{(VA)^2 - (W)^2}$, Calculated Value | | | | |
| Power Factor | Range | | 0 - 1.000 | | | | |
| | Accuracy | | W / VA, Calculated and displayed to three significant digits | | | | |
| Measurement (Total) Linking Polyphase 1Ø3W | | | 310XAC | 320XAC | 340XAC | 360XAC | |
| Voltage | Range | 2 | L1 Voltage + L2 Voltage | | | | |
| | Accuracy | | Summation of linked sources, Calculated and displayed to one significant digit | | | | |
| Frequency | Range | | 0.0 - 1000.0 Hz | | | | |
| | Accuracy | L | ± 0.1 Hz @ 0.0 - 500 Hz | | | | |
| | | H | ± 0.2 Hz @ 501 - 1000 Hz | | | | |
| Current (RMS) | Range | 2 | (L1 Current + L2 Current)/2 | | | | |
| | Accuracy | | ± (1% of reading + 5 counts) at 40 - 70 Hz ± (1% of reading + 5 counts) at 70.1 - 500 Hz, and output current (RMS) >0.200 A ± (1% of reading + 5 counts) at 501 - 1000 Hz, and output current (RMS) >0.300 A | | | | |
| Power (W) | Range | 2 | L1 Power + L2 Power | | | | |
| | Accuracy | 2 | L1 Power + L2 Power, Calculated Value | | | | |
| Power Apparent (VA) | Range | 2 | L1 VA + L2 VA | | | | |
| | Accuracy | 2 | L1 VA + L2 VA, Calculated Value | | | | |
| Power Reactive (Q) | Range | 2 | L1 VAR + L2 VAR | | | | |
| | Accuracy | 2 | L1 VAR + L2 VAR, Calculated Value | | | | |
| Power Factor | Range | | 0 - 1.000 | | | | |
| | Accuracy | | (L1 P + L2 P) / (L1 VA + L2 VA), Calculated and displayed to three significant digits | | | | |

| Measurement (Total) Linking Polyphase 3Ø4W | | | 310XAC | 320XAC | 340XAC | 360XAC |
|--|----------|--|--------------------------|------------------|---|---|
| Voltage | Range | (A+B+C)/3 | | | | |
| | Accuracy | (A+B+C)/3, Calculated and displayed to one significant digit | | | | |
| Frequency | Range | 0.0 - 1000.0 Hz | | | | |
| | Accuracy | L | ± 0.1 Hz @ 0.0 - 500 Hz | | | |
| | | H | ± 0.2 Hz @ 501 - 1000 Hz | | | |
| Current (RMS) | Range | (A+B+C)/3 | | | | |
| | Accuracy | ± (1% of reading + 5 counts) at 40 - 70 Hz ± (1% of reading + 5 counts) at 70.1 - 500 Hz, and output current (RMS) >0.200 A ± (1% of reading + 5 counts) at 501 - 1000 Hz, and output current (RMS) >0.300 A | | | | |
| Power (W) | Range | A Power + B Power + C Power | | | | |
| | Accuracy | Calculated Value | | | | |
| Power Apparent (VA) | Range | A VA + B VA + C VA | | | | |
| | Accuracy | Calculated Value | | | | |
| Power Reactive (Q) | Range | A VAR + B VAR + C VAR | | | | |
| | Accuracy | Calculated Value | | | | |
| Power Factor | Range | 0 - 1.000 | | | | |
| | Accuracy | Sum P / Sum VA, Calculated and displayed to three significant digits | | | | |
| Measurement (Total) Linking Parallel DC | | | 310XAC | 320XAC | 340XAC | 360XAC |
| Voltage | Range | 0.0 - 420.0 V | | | | |
| | Accuracy | ± (1% of reading + 2 counts) >5 V | | | ± (1% of reading + 5 counts) >5 V | |
| Current (RMS) | Range | 2 | 0.05 A - 26.00 A | 0.05 A - 52.00 A | 0.05 A - 104.00 A | 0.05 A - 156.00 A |
| | | 3 | 0.05 A - 39.00 A | 0.05 A - 78.00 A | 0.05 A - 156.00 A | 0.05 A - 234.00 A |
| | Accuracy | ± (1% of reading + 5 counts) x # of Linked Units, Current >1.00 A | | | ± (1% of reading + 5 counts) x # of Linked Units, Current >2.00 A | ± (1% of reading + 5 counts) x # of Linked Units, Current >3.00 A |
| Power (W) | Range | 2 | 0 W - 2600 W | 0 W - 25200 W | 0 W - 10400 W | 0 W - 15600 W |
| | | 3 | 0 W - 3900 W | 0 W - 7800 W | 0 W - 15600 W | 0 W - 23400 W |
| | Accuracy | ± (2% of reading + 5 counts) x # of Linked Units | | | | |

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.

Key

L = Low Limit Range
H = High Limit Range

L (2) = Low Limit Range 2 Units Linked
L (3) = Low Limit Range 3 Units Linked

H (2) = High Limit Range 2 Units Linked
H (3) = High Limit Range 3 Units Linked

2 = 2 Units Linked
3 = 3 Units Linked

7000 Series



Automated AC Power Sources

Our 7000 Series automated AC power sources are ideal for advanced applications at a competitive price. 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 metering data on the front panel and the easy-to-use local interface allows operators to get tests up and running quickly.

Features

- 50 built-in memory locations with 9 test steps
- 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



Options

- Grounded Neutral
- 7 Remote Memories
- GPIB Interface
- Ethernet Interface

NI LabVIEW
DRIVER AVAILABLE



Applicable



Aerospace



Appliance



System Integrator



Lighting



Medical

APT Benefits



Specifications – 7000 Series

| INPUT | | 7004 | 7008 | 7016 | 7040 |
|------------------------|-----------|--|--|----------------------------------|--|
| Phase | | 1Ø | | | |
| Voltage | | 115/230 VAC ± 10% | | 230 VAC ± 10% | |
| Frequency | | 47 – 500 Hz | | | |
| OUTPUT | | | | | |
| Voltage | | 0 - 300 V | | 5 - 300 V | |
| Max Power | | 400 VA* | 800 VA* | 1600 VA* | 4000 VA |
| 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 - 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) >5V | |
| 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) at PF >0.2 | | ± (2% of reading + 5 counts) at PF ≥0.2 Voltage >5 V Current >0.05 A |
| | | H | ± (2% of reading + 5 counts) at PF >0.2 | | |
| Power Factor | Range | 0.000 - 1.000 | | | |
| | Accuracy | W/VA, Calculated and displayed to three significant digits | | | |
| GENERAL | | | | | |
| Rackmount Handles | | Standard | | | |
| USB/RS-232 Interface | | Standard | | | |
| Lockout | | Key lockout or password protection | | | |
| Front Output | | Universal Receptacle | Universal Receptacle | Universal Receptacle | - |
| 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) |

Specifications subject to change

*Output Power and Power Factor Considerations

The reactive output power specification of models 7004, 7008, and 7016 change depending on the power factor of the load. While the 7004, 7008, and 7016 are specified as 400 VA, 800 VA, and 1.6 kVA units respectively, they can actually output up to 25% more reactive power based on the power factor of the load, thus keeping the real power under the specified limit. The reactive power is at its peak when the power factor = 0.8. See chart below for more information:

Why We Use Counts

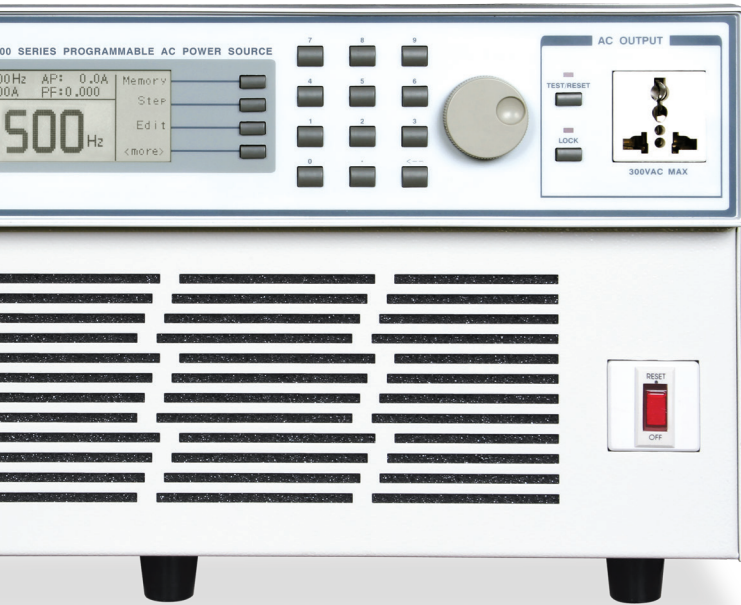
APT publishes some specifications using "counts" which allows us to provide a better indication of the tester's capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts = 2V.

| | 7004 | 7008 | 7016 |
|--------------------------|-----------------|------------------|-------------------|
| Output Power at pf ≤ 0.8 | 500 VA @ ≤400 W | 1000 VA @ ≤800 W | 2000 VA @ ≤1600 W |
| Output Power at pf > 0.8 | 400 VA @ ≤400 W | 800 VA @ ≤800 W | 1600 VA @ ≤1600 W |

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.



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%
- 7 Remote Memories
- Grounded Neutral
- Ethernet Interface
- GPIB Interface
- DC Output

Applicable



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Appliance



Laboratory



Lighting



Medical

APT Benefits



| 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 | |
| | 430 x 89 x 400 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) | |
| 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.

5000 Series

Manual AC Power Sources

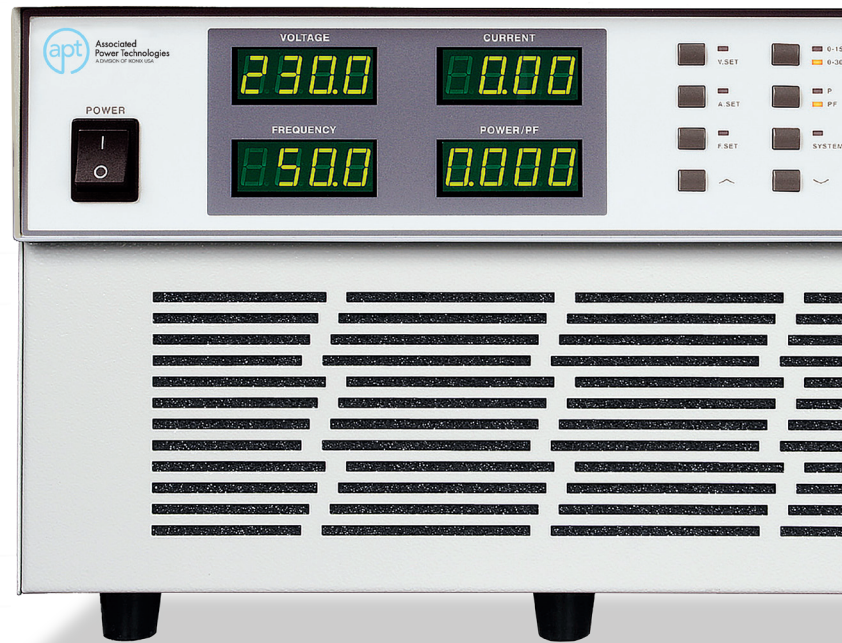
Our 5000 Series manual AC power sources are lightweight and efficient while providing a robust feature set. Ideal for bench-top applications, they feature four LED displays that monitor voltage, current, frequency, power, and power factor. The easy-to-use local push-button interface allows you to quickly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

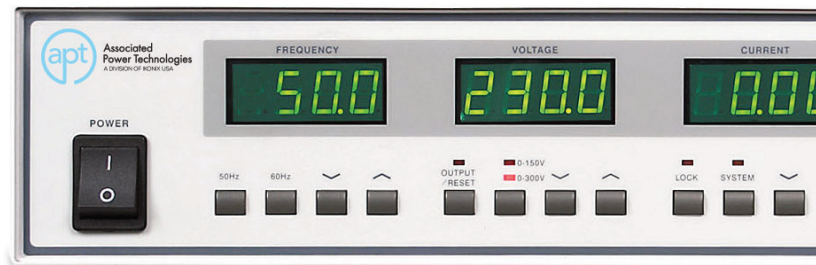
APT publishes some specifications using “counts” which allows us to provide a better indication of the tester’s capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the resolution for voltage is 1V then 2 counts = 2V.

Linear AC Power Sources

Our LS Series linear AC power sources provide clean, regulated power at competitive prices. Linear technology reduces total harmonic distortion (THD) across the instrument's output frequency range and improves performance for high crest factor loads. Four LED displays monitor voltage, current, frequency, power, and power factor while the easy-to-use local push-button interface allows operators to quickly set and change test parameters with ease. Built-in safety features protect the instrument, the operator, and the DUT ensuring a safe work environment.

Features

- 3 built-in memory locations
- 50/60 Hz quick selection keys
- Metering circuits monitor voltage, current, frequency and power
- Constant current output with over current fold back feature
- Front panel lockout
- Programmable high and low limits for voltage, current and frequency
- Low range metering into milliwatts for power (optional)
- Push-button interface for easy setup
- Test/Reset key quickly disables output voltage
- Front panel calibration



Options

- Grounded Neutral
- 7 Remote Memories
- Low Range .1mA/.01W Resolution

Applicable



Aerospace



Laboratory



Lighting



Medical

APT Benefits



| INPUT | | LS 1000 | |
|-----------------------------|-----------|--|--|
| Phase | | 1Ø | |
| Voltage | | 115/230 VAC Selectable ± 10% Variation | |
| Frequency | | 50/60 Hz ± 5% | |
| OUTPUT | | | |
| Voltage | | 0 - 300 VAC | |
| Max Power | | 1 kVA | |
| Max Current 1Ø | 0 - 150 V | 8.4 A @ ≤120 V | |
| | 0 - 300 V | 4.2 A @ ≤240 V | |
| Phase | | 1Ø | |
| Frequency | | 45 - 500 Hz | |
| THD | | <0.5% @ 45-500 Hz (Resistive Load) | |
| Crest Factor | | ≥4 | |
| Line Regulation | | ± 0.1 V | |
| Load Regulation | | ± 0.5% (Resistive Load) | |
| MEASUREMENT | | | |
| Voltage | Range | 0.0 - 300.0 V | |
| | Accuracy | ± (1.5% of reading + 2 counts) | |
| Frequency | Range | 0.0 - 500.0 Hz | |
| | Accuracy | ± 0.1 Hz | |
| Current (RMS) | Range | L | 0.000 - 3.500 A (2.0 mA - 350.0 mA) |
| | | H | 3.0 - 35.00 A |
| | Accuracy | ± (2.0% of reading + 3 counts) for high range ± (2.0% of reading + 5 counts) for low range (± 0.6% of reading + 5 counts Option 5) | |
| Power | Range | L | 0.0 - 350.0 W (0.20 - 3500 W Option 5) |
| | | H | 300 - 4000 W |
| | Accuracy | ± (5.0% of reading + 3 counts) for high range ± (5.0% of reading + 5 counts) for low range (± 0.6% of reading + 5 counts Option 5) | |
| Power Factor | Range | 0.000 - 1.000 | |
| | Accuracy | W/VA, Calculated value | |
| GENERAL | | | |
| Inrush Current | | 4 times the current rating | |
| Enhanced Over Load Capacity | | 105% overcurrent can hold for 500 ms w/o protection | |
| Operation Key Feature | | Up/Down Arrow Key | |
| Memory | | 3 Memories (M1, M2, M3), (7 Memories Option 4) | |
| PLC Remote Interface | | Input: Test, Reset Recall Memories 1-3 (1-7 Option 4), Output: Fail, Test-in-Process | |
| Fan | | Yes | |
| Front Output | | Universal Receptacle | |
| Rear Output | | Terminal Block | |
| Displays | | 4 LED Displays | |
| Rack Mount Kit | | Standard | |
| Protection Circuits | | Over Current, Over Voltage, Over Temperature | |
| Calibration | | Front panel software | |
| Dimensions (W x H x D) | | 16.92 x 3.50 x 22.05 in 430 x 89 x 560 mm | |
| Net Weight | | 79.4 lbs (36 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.

VariPLUS®

Power Converter

The VariPLUS® is a power converter specifically designed for testing in the production line or laboratory environment. The VariPLUS out performs the traditional variable transformer on multiple levels that include metering, automatic voltage, and frequency adjustments to the load. Easily produce variable output voltages between 0-300 VAC with selectable frequency at 50/60 Hz to satisfy your product testing requirements. Simple adjustments are made through dedicated keys and a rotary knob. The universal receptacle provides multi-national connections while providing operator protection.



Features

- Isolated output ensures the power provided to the DUT is free from distortion, voltage spikes, and other transients
- Push-button interface for 50/60 Hz output
- SmartVOLT feature allows the operator to configure the instrument to power up at 0 volts or the previously used voltage before the instrument was turned off
- Metering circuits monitor voltage, current, frequency, and power
- Output/Reset key maximizes operator safety by enabling and disabling the output with a simple push-button
- Power Up feature configures the output relay for quick and efficient testing
- Front panel lockout

Options

- Grounded Neutral

Applicable



Laboratory



Lighting



Medical



Test & Measurement

APT Benefits



| INPUT | | 105 |
|-----------------------------|----------|--|
| Phase | | 1Ø |
| Voltage | | 115/230 VAC Selectable ± 10% Variation |
| Frequency | | 47 – 63 Hz |
| OUTPUT | | |
| Voltage | | 0 - 300 VAC |
| Max Power | | 500 VA |
| Max Current (RMS) | | 2.3 A @ <220 V, 4.6 A @ <110 V |
| Phase | | 1Ø2W |
| Frequency | | 50, 60 Hz Selectable |
| THD | | <1% (Resistive Load) |
| Crest Factor | | ≥ 3 |
| Line Regulation | | ± 0.1 V |
| Load Regulation | | ± (0.5% of output + 0.5 V) at Resistive Load |
| Response Time | | <400 µsec |
| MEASUREMENT | | |
| Voltage | Range | 0.0 - 400.0 V |
| | Accuracy | ± (1% of reading + 2 counts) |
| Frequency | Range | 50, 60 Hz Selectable |
| | Accuracy | ± 0.1% Hz of setting ± .03% |
| Current (RMS) | Range | 0.0 – 6.50 A |
| | Accuracy | ± (1% of reading + 5 counts) |
| Power | Range | 0 - 650 W |
| | Accuracy | ± (2% of reading + 10 counts) at PF ≥ 0.2 |
| GENERAL | | |
| Inrush Current | | 4 times the current rating |
| Enhanced Over Load Capacity | | 4 times of rating current, Over Current 110% can hold for 1000 ms w/o Protection |
| Operation Key Feature | | Frequency, Display, System, Lock, Output |
| Digital Encoder | | Adjusts output voltage and system parameter values |
| Fan | | Temp. Control Two Fan Speed |
| Front Output | | Universal Receptacle |
| Rear Output | | - |
| Displays | | LED |
| Efficiency | | ≥ 80% (at full load) |
| Protection Circuits | | Over Current, Over Voltage, Over PP, Over Temperature |
| Calibration | | Front Panel Calibration |
| Dimensions (W x H x D) | | 14 x 5.25 x 12 in |
| | | 355 x 133 x 300 mm |
| Net Weight | | 28 lbs (13 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.

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