

AC Power Sources

Manual • Automated • Modular





3 Phase AC Power Sources • Modular AC Power Sources • Manual AC Power Sources

Power Converters • Automated AC Power Sources

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

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.



Start Output PowerTRAC

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!



AVAILABLE

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

	Output Power Capability									Outpu	t Configur	ations
Model	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	•									•		
5005	•									•		
5010		•								•		
5020			•							•		
5040					•					•		
6005	•									•		
6010		•								•		
6020			•							•		
6040					•					٠		
7004	•									٠		
7008		•								٠		
7016			•							٠		
7040					•					٠		
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

	Outp	out Capabilities o	Ger	neral Feat	ures	
Model	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			
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

400XAC Series (E Constant)

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



Applicable Industries





Appliance





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								
	1Ø2W		3000 VA	6000 VA				
Power Rating		ð3W	Total 2000 VA (1000 VA per phase)	Total 4000 VA (2000 VA per phase)				
, i i i j		ð4W	Total 3000 VA (1000 VA per phase)	Total 6000 VA (2000 VA per phase)				
			3000 VA	6000 VA				
	1Ø2W	5-150 V	27.6 A @ ≤110 V	55.2 A @ ≤110 V				
		5 - 300 V 5 - 150 V	13.8 A @ ≤220 V 9.2 A @ ≤110 V for per phase	27.6 A @ ≤220 V 18.4 A @ ≤110 V for per phase				
Max. Current (RMS)	1Ø3W 5 - 300 V		$4.6 \text{ A} @ \leq 220 \text{ V} \text{ for per phase}$	9.2 A $@\leq 220$ V for per phase				
		5 - 150 V	9.2 A $@\leq 110$ V for per phase	$18.4 \text{ A} @ \leq 110 \text{ V}$ for per phase				
	3Ø4W	5 - 300 V	4.6 A @ ≤ 220 V for per phase	9.2 A $@ \le 220$ V for per phase				
		5 - 150 V	110.4 A	220.8 A				
	1Ø2W	5 - 300 V	55.2 A	110.4 A				
Inrush Current	1Ø3W	5 - 150 V	36.8 A for per phase	73.6 A for per phase				
(peak)	10300	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				
	5,5	5 - 300 V	18.4 A for per phase	36.8 A for per phase				
Phase				8Ø4W, provided option				
THD (Total Harm	onic Dist	tortion)	at Low Range or the	Iz and output voltage within the 80~140 VAC 160~280 VAC at High Range. hin the 80~140 VAC at Low Range or the 160~280 VAC at High Range.				
Crest Factor			≥3					
Line Regulation				± 0.1 V				
Load Regulat	ion (Haro	dware)	± (1% of output +1 V) at Re	\pm (1% of output +1 V) at Resistive Load, <400 μS response time				
Load Regulat	tion (Soft	ware)	± 0.2 V, <	1 S response time				
DC offset			≤±5mV					
Poly-phase mode (3Ø4W) for per phase output setting		4W)						
	output		430XAC	460XAC				
	Range	setting	5.0~300 VAC (phase), 8.6~5	20 VAC (line), 150/300 V Auto Range				
for per phase	Range Accurac	setting	5.0~300 VAC (phase), 8.6~5 ± (0.2% of	20 VAC (line), 150/300 V Auto Range setting + 3 counts)				
for per phase	Range Accurac Range	setting y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H	20 VAC (line), 150/300 V Auto Range setting + 3 counts) Iz Full Range Adjust				
for per phase of Voltage Frequency	Range Accuracy Range Accuracy	setting y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H	20 VAC (line), 150/300 V Auto Range setting + 3 counts) iz Full Range Adjust 3% of setting				
for per phase of Voltage Frequency Starting & Ending	Range Accurac Range	y y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) Iz Full Range Adjust				
for per phase of Voltage Frequency Starting &	Range Accuracy Range Accuracy Range Accuracy	y y y y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ±1	20 VAC (line), 150/300 V Auto Range setting + 3 counts) iz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ)				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi	Range Accuracy Range Accuracy Accuracy 5V~150	y y y y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A	20 VAC (line), 150/300 V Auto Range setting + 3 counts) Iz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A				
for per phase of Voltage Frequency Starting & Ending Phase Angle	Range Accuracy Range Accuracy Range Accuracy 5V~150 5V~300	y y y y y v v	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi	Range Accuract Range Accuract Range Accuract 5V~150 5V~300 Accuract	setting y y y y v v v y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A	20 VAC (line), 150/300 V Auto Range setting + 3 counts) Iz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit	Range Accuract Range Accuract Range Accuract 5V~150 5V~300 Accuract	setting y y y y v v v y	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A ± (2.0% of	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts)				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res	Range Accurac Range Accurac Range Accurac 5V~150 5V~300 Accurac sponse T	setting y y y y v V y ime	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A ± (2.0% of 0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) iz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down	Range Accurace Range Accurace Accurace 5V~150 5V~300 Accurace sponse T Range	setting y y y y v V y ime	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A ± (2.0% of 0 0 ± (0.1%)	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second)	Range Accurace Range Accurace Range SV~150 SV~300 Accurace sponse T Range Accurace	setting y y y y v v v y ime	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 10 \pm 10 0.01~9.20 A 0.01~4.60 A \pm (2.0% of 0 \pm (2.0% of 0 0 \pm (0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) lz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec)				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down	Range Accurace Range Accurace Range SV~150 SV~300 Accurace Range Accurace Range	setting y y y y v v v y ime	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 0.0 \pm 10 0.01~9.20 A 0.01~4.60 A \pm (2.0% of \pm (2.0% of \pm (2.0% of \pm (0.1 \pm (0.1 0.0 \pm (0.1 0.1 0.0 \pm (0.1 0.0 \pm (0.1 0.0 \pm (0.1)	20 VAC (line), 150/300 V Auto Range setting + 3 counts) iz Full Range Adjust 3% of setting 0~359° (45~65 HZ) 0.01~18.40 A 0.01~9.20 A cetting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec) .0~999.9 s				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second)	Range Accurace Range Accurace Range Accurace 5V~150 ° 5V~300 Accurace sponse T Range Accurace Range	setting y y y y v v v v y ime y y	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 0.0 \pm 1° 0.01~9.20 A 0.01~9.20 A \pm (2.0% of \pm (2.0% of \pm (2.0% of \pm (0.1 \pm (0.1 \pm (0.1 0.1 \pm (0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	20 VAC (line), 150/300 V Auto Range setting + 3 counts) iz Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A (1.4 s (-1.4 s 0.0~999.9 s 1% + 0.05 sec) 0~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.05 sec) s~999.9 s				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second)	Range Accurace Range Accurace SV~150 ° 5V~300 Accurace Sponse T Range Accurace Range Accurace Range	setting y y y y y y y y y y y y y y y y y y y	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 10 \pm 10	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec) .0~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.15 sec) s~999.9 min h~999.9 min h~999.9 min h~999.9 h				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer	Range Accurace Range Accurace Range Accurace SV~150 V 5V~300 Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y y y y y y y y y y y y y y y y	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 10 \pm 10	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec) .0~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.05 sec) s~999.9 s n~999.9 min h~999.9 min h~999.9 h				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer	Range Accurace Range Accurace Stores Stores Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y v v v v v v y y y y v v v v v v v v v v v v v	5.0~300 VAC (phase), 8.6~5 \pm (0.2% of 40~1000 H \pm 0.0 \pm 10 \pm 10	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec) .0~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.15 sec) s~999.9 min h~999.9 min h~999.9 min h~999.9 h				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer	Range Accurace Range Accurace Stores Stores Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y v v v v v v y y y y v v v v v v v v v v v v v	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 0.0 ± 10 0.01~9.20 A 0.01~9.20 A 0.01~4.60 A ± (2.0% of ± (2.0% of ± (2.0% of 1 0.01~4.60 A ± (2.0% of ± (0.1%) 0 ± (0.1%) 1 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 1 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% 0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) Iz Full Range Adjust 3% of setting 0~359° (45~65 HZ) 0.01~18.40 A 0.01~2.00 A (45~65 HZ) (45~65 H				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase me	Range Accurace Range Accurace Range Accurace SV~150 V 5V~300 Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y v v v v v v v v y y y y y 4W) for ent	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 0.0 ± 10 0.01~9.20 A 0.01~9.20 A 0.01~4.60 A ± (2.0% of ± (2.0% of ± (2.0% of 1 0.01~4.60 A ± (2.0% of ± (0.1%) 0 ± (0.1%) 1 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 1 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.0% 0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° 2(45~65 HZ) 0.01~18.40 A 0.01~9.20 A setting + 2 counts) <1.4 s .0~999.9 s 1% + 0.05 sec) .0~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.05 sec) s~999.9 s 1% + 0.1 sec) Ph (0=continuous) 1% + 0.1 sec) 2460XAC				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase measure Frequency	Range Accurace Range Accurace Range Accurace SV~150 % SV~300 Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y v v v v y y y 4W) for ent	$5.0-300 \text{ VAC (phase), } 8.6-5$ $\pm (0.2\% \text{ of}$ $40-1000 \text{ H}$ ± 0.0 $\pm 1^{\circ}$ $0.01-9.20 \text{ A}$ $0.01-4.60 \text{ A}$ $\pm (2.0\% \text{ of}$ $\pm (2.0\% \text{ of}$ $\pm (2.0\% \text{ of}$ $\pm (0.1\% \text{ of})$	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° (45~65 HZ) 0.01~18.40 A 0.01~2.00 A (45~65 HZ) 0.01~9.20 A (1.4 s 0.01~9.20 A (1.4 s 0.0~999.9 s (1.4 s 0.0 - 1000 Hz 0.1 Hz 00 Hz Accuracy ± 0.2 Hz)				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase me	Range Accurace Range Accurace SV~150 SV~300 Accurace Sponse T Range Accurace Range Accurace Range Accurace Range Accurace Range Resoluti Accurace Range	setting y y y y v v v v v v y y y y y y y y y y y y y	$5.0-300 \text{ VAC (phase), } 8.6-5$ $\pm (0.2\% \text{ of}$ $40-1000 \text{ H}$ ± 0.0 $\pm 1^{\circ}$ $0.01-9.20 \text{ A}$ $0.01-4.60 \text{ A}$ $\pm (2.0\% \text{ of}$ $\pm (2.0\% \text{ of}$ $\pm (2.0\% \text{ of}$ $\pm (0.1\% \text{ of})$	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° (45~65 HZ) 0.01~18.40 A 0.01~2.00 A (45~65 HZ) 0.01~9.20 A (45~65 HZ) 0.0~999.9 s (45~65 HZ) (45~65 HZ) 0.0~999.9 s (45~65 HZ) (45~65				
for per phase of Voltage Frequency Starting & Ending Phase Angle Current Hi Limit OC Fold Back Res Ramp-Up Timer (second) Ramp-Down Timer (second) Delay Timer Dwell Timer Poly-phase measure Frequency	Range Accurace Range Accurace SV~150 SV~300 Accurace Sponse T Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range Accurace Range	setting y y y y v v v v v v v v v v v v v	5.0~300 VAC (phase), 8.6~5 ± (0.2% of 40~1000 H ± 0.0 ± 10 0.01~9.20 A 0.01~4.60 A ± (2.0% of ± (2.0% of ± (0.1 0 ± (0.1 0 ± (0.1 0, 1s~999: ± (0. 430XAC 0 ± 0.1 Hz (501-10 0	20 VAC (line), 150/300 V Auto Range setting + 3 counts) z Full Range Adjust 3% of setting 0~359° (45~65 HZ) 0.01~18.40 A 0.01~2.00 A (45~65 HZ) 0.01~9.20 A (1.4 s 0.01~9.20 A (1.4 s 0.0~999.9 s (1.4 s (1.4 s 0.0~999.9 s (1.4 s				

460XAC
).005 A~2.400 A
2.00 A~26.00 A
ng +5 counts) at 40.0-500 Hz
rg + 5 counts) at +0.0 500 Hz,
nd Current (peak) $\leq 7.2 \text{ A}$
ng +5 counts) at 40.0-500 Hz
ng +5 counts) at 501-1000 Hz, nd Current (peak) ≤55.2 A
0.0 A~76.0 A
0.0 W~240.0 W
200 W~2600 W
200 W 2000 W
0.0 VA~240.0 VA
200 VA~2600 VA
VAR ~ ± 240.0 VAR
/AR ~ ± 2600 VAR
460XAC
460XAC
460XAC
460XAC
ts
ts 0.005A~2.400A
ts 0.005A~2.400A
ts 0.005A~2.400A
ts 0.005A~2.400A 2.00A~26.00A
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~7800W
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~720.0VA 500VA~7800VA
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~720.0VA 500VA~7800VA
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~7800W 0.0VA~720.0VA 500VA~7800VA
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~720.0W 600W~7800W 0.0VA~720.0VA 500VA~7800VA 00VA~720.0VA
ts 0.005A~2.400A 2.00A~26.00A 0.0W~720.0W 600W~720.0W 600W~7800W 0.0VA~720.0VA 500VA~7800VA 00VA~720.0VA

Single-phase r Setting	node (1Ø	2W)	430XAC	460XAC				
Frequency	Range		40~1000 Hz	Full Range Adjust				
,	Resolution	1		Hz , 1 Hz at 100~1000 Hz				
	Accuracy		± 0.03% of setting					
Starting &	Range		0~359°					
Ending Phase			0	-555 1 ⁰				
Angle	Resolution	1						
	Accuracy			45~65 HZ)				
Current Hi	5V~150V		0.01~27.60 A	0.01~55.20 A				
Limit	5V~300V		0.01~13.80 A	0.01~27.60 A				
	Accuracy			etting + 2 counts)				
OC Fold Back Res			<	< 1.4 s				
Single-phase r measurement	node (1Ø	2W)	430XAC	460XAC				
Frequency	Range		0.0~	-1000 Hz				
	Accuracy		± 0.1 Hz (501~1000	0 Hz Accuracy ±0.2 Hz)				
Voltage	Range		0.0	~420.0 V				
	Accuracy		± (0.2% of re-	ading + 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 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 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		± (1.5% of reading +	5 counts) at 40.0~70.0 Hz 10 counts) at 70.1~500 Hz ints) at 501~1000 Hz and CF<1.5				
Power	Range		0 W~3900 W	0 W~7800 W				
	Accuracy		\pm (2% of reading +5 counts) at 40.0~500 Hz and PF ≥0.2 \pm (2% of reading +15 counts) at 501~1000 Hz and PF ≥0.5					
Power Factor	Range		0 - 1.000					
	Accuracy		W / VA, Calculated and disp	played to three significant digits				
Power	Range		0 VA~3900 VA	0 VA~7800 VA				
Apparent	Accuracy		V×A, Calculated value					
Power	Range		0 VAR~3900 VAR	0 VAR~7800 VAR				
Reactive (Q)	Accuracy		$\sqrt{(VA)^2 - (W)^2}$	z, Calculated value				
Crest Factor	Range		0.	- 10.00				
	Accuracy		Ap / A, Calculated and displayed to two significant digits					
Poly-phase mo	ode (1Ø3\		430XAC 460XAC					
	Range	.y	5.0~300 VAC (phase), 10.0~600 VAC (line), 150/300 V Auto Range					
Voltage	Accuracy		± (0.2% of setting + 3 counts)					
F			± (0.2% of setting + 3 counts) 40~1000 Hz Full Range Adjust					
Frequency	Range							
Charati O	Accuracy			% of setting				
Starting & Ending Phase	Range		0	~359°				
Angle	Accuracy		± 1°(4	45~65 HZ)				
	5V~150V		0.01~9.20 A	0.01~18.40 A				
Current RI Limit	5V~300V		0.01~4.60 A	0.01~9.20 A				
	Accuracy		± (2.0% of se	etting + 2 counts)				
OC Fold Back Res		ne		<1.4 s				
Poly-phase mo per phase mea	ode (1Ø3\	N) for	430XAC	460XAC				
	Range		0.0-	-1000 Hz				
Frequency	Accuracy) Hz Accuracy ±0.2 Hz)				
	Range			• •				
Voltage				-420.0 V				
	Accuracy			ading + 3 counts)				
	Range	L	0.005 A~1.200 A	0.005 A~2.400 A				
		Н	1.00 A~13.00 A	2.00 A~26.00 A				
		L	\pm (1% of reading +5 counts) at 40.0-500 Hz	\pm (1% of reading +5 counts) at 40.0-500 Hz				
Current (RMS)		L	\pm (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤3.6 A	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤7.2 A				
	Accuracy		\pm (1% of reading + 5counts) at 40.0-500 Hz	± (1% of reading +5 counts) at 40.0-500 Hz				
	н		\pm (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) \leq 27.6 A	± (1% of reading +5 counts) at 501-1000 Hz, CF <1.5 and Current (peak) ≤5.2 A				

Poly-phase m	ode (1Ø3W	() for					
per phase me			430XAC	460XAC			
	Range		0.0 A~38.0 A	0.0 A~76.0 A			
Current (peak)) Accuracy		± (1.5% of reading +	5 counts) at 40.0-70.0 Hz 10 counts) at 70.1-500 Hz ints) at 501-1000 Hz and CF <1.5			
		L	0.0 W~120.0 W	0.0 W~240.0 W			
	Range	Н	100 W~1300 W	200 W~2600 W			
Power	Accuracy	L	± (2% of reading +30 cour	nts) at 40.0-500 Hz and PF ≥0.2 nts) at 501-1000 Hz and PF ≥0.5			
		Н	± (2% of reading +15 cour	ts) at 40.0-500 Hz and PF ≥0.2 nts) at 501-1000 Hz and PF ≥0.5			
Power Factor	Range		0	- 1.000			
	Accuracy		W / VA, Calculated and disp	played to three significant digits			
Damas	Range	L	0.0 VA~120.0 VA	0.0 VA~240.0 VA			
Power Apparent (VA)	nange	Н	100 VA~1300 VA	200 VA~2600 VA			
ippulcit (iii)	Accuracy		VxA, Cal	culated value			
		L	0.0 VAR~120.0 VAR	0.0 VAR~240.0 VAR			
Power	Range	Н	0 VAR~1300 VAR	0 VAR~2600 VAR			
Reactive (Q)	Accuracy			Calculated value			
Crest Factor	Range			-10.00			
crestructor	Accuracy		· · · · · · · · · · · · · · · · · · ·	played to two significant digits			
Poly-phase m		() for					
L1-L2 measure) IOr	430XAC	460XAC			
Frequency	Range		0.0-1	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			
		н	1.00A~13.00A	2.00~26.00A			
	Calculated Formula	L	<u>Σ</u> Σ				
Power	Range	L	0.0W~240.0W	0.0W~480.0W			
Fower	hange						
		H	200W~2600W	400W~5200W			
	Accuracy	L H	L1 Power + L2 Po	wer, Calculated value			
Power Factor	Range		0	- 1.000			
	Calculated F	ormula	(L1 P + L2 P) / (L1 VA + L2 VA), Calculate	ed and displayed to three significant digits			
Power	Range	L	0.0W~240.0VA	0.0W~480.0VA			
Apparent (VA)		Н	200W~2600VA	± 400W~5200VA			
	Calculated						
	Formula	Н	$\sqrt{(\sum^W)^2 + (\sum^Q)^2}$	Calculated value			
Power	Range	L	0.0VAR ~ ± 240.0VAR	0.0VAR ~ ± 480.0VAR			
Reactive (Q)		Н	± 200VAR ~ ± 2600VAR	± 400VAR ~ ± 5200VAR			
	Calculated						
	Formula	H	L1 VAR + L2 VA	R, Calculated value			
DC OUTPUT							
Max. Power			3000 W	6000 W			
Max. Current	0-21	ΟV	14.4 A	28.8 A			
mux. current	0-21		7.2 A	14.4 A			
Pipple and Mat-		. v		14.4 A 210 V <700 mV			
Ripple and Noise	e (RIVIS)		_				
				120 V <1100 mV			
Ripple and Noise	e (p-p)		<4	.0 Vp-р			
DC SETTINGS							
Voltage	Range		5-210 V / 5	420 V Selectable			
	Accuracy		± (0.2% of se	etting + 3 counts)			
	5 V-210 V		14.40 A	0.10 - 28.80 A			
Current Hi	5 V-420 V		7.20 A	0.10 - 14.40 A			
Limit	Accuracy			etting + 2 counts)			
OC Fold Back Re				<1.4 s			
OC FOID BACK RE	sponse rime	-		(1.1)			

DC MEASURE	MENT	430XAC	460XAC			
Voltage	Range	0.0-420.0 V				
	Accuracy	± (0.2% of s	etting + 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 re-	ading +5 counts)			
PROTECTION						
Software OCP		Over Current 110% of	full rated current >1 second			
Output Short Sh	ut Down Speed	<1	second			
Software OPP		When over Power 105 ~	110% of full power >5 second.			
		When over Power >11	0% 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		When output frequency < 100	Hz, maximum voltage deviation + 5V			
	L	When output frequency 101-500	Hz, maximum voltage deviation + 15V			
		When output frequency 501-1000	0Hz, maximum voltage deviation + 20V			
		When output frequency < 100H	Iz, maximum voltage deviation + 10V			
	н	When output frequency 101-500	Hz, maximum voltage deviation + 30V			
		When output frequency 501-1000	0Hz, maximum voltage deviation + 40V			
Software LVP			ximum voltage deviation -5V > 0.5 second			
	L	When output frequency 101-500Hz, maximum voltage deviation -15V > 0.5 second				
		When output frequency 501-1000Hz, m	naximum voltage deviation -20V > 0.5 second			
		When output frequency < 100Hz, maximum voltage deviation -10V > 0.5 second				
	Н	When output frequency 101-500Hz, maximum voltage deviation -30V > 0.5 second				
		When output frequency 501-1000Hz, maximum voltage deviation -40V > 0.5 second				
	Protection (RCP)	Over 75W				
GENERAL						
Transient (only f	or 40~70 Hz)		00.0 V Resolution 0.1 V			
		Trans-Site 0°~359° Resolution 1°				
			9.9 mS Resolution 0.1 mS			
On each in Key F	· •)-9999, 0-Constant			
Operation Key F			eric key, Rotary Knob			
Remote Input Si	-		II program memory 1 through 7			
Remote Output	Signai		Test-in Process			
Key Lock			sword Driven			
Memory			s, 9 steps/memory			
Ext Trigger			bgram mode, Output Signal 5 V, BNC type			
Alarm Volume S			test volume, 9 is loudest volume.			
Graphic Display			ographic LCD/Contrast 9 Levels 1-9			
PFC			7 at Full load			
Efficiency			(at Full load)			
Auto Loop cycle Over Current Fo			ious, OFF, 2~9999			
Over Current FO			old back output voltage to keep constant output current is setting Hi-A value, e time <1400ms			
Safety Agency		C	E Listed			
Dimensions (W)	(H x D)	430 x 40	00.5 x 500 mm			
		16.93 x 1	5.77 x 19.69 in			
Net Weight		105.8 lbs (48 kg)	125.6 lbs (57 kg)			
	onment		/20-80% RH			

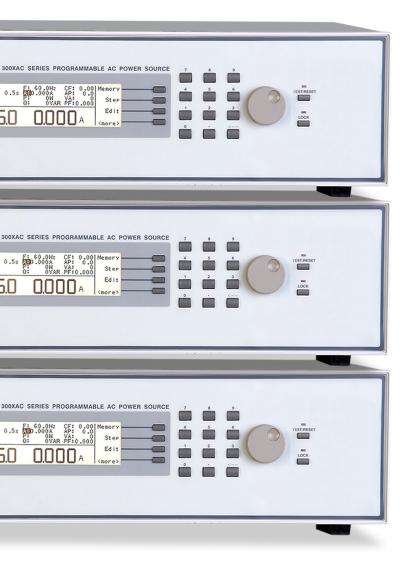
Specifications subject to change

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 (E @ CTELES

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

owerTRAC AVAILABLE





Applicable





Appliance











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.



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



INPUT		310XAC	320XAC	340XAC	360XAC			
Phase			1Ø		1Ø or 3Ø			
Voltage		100 - 240 \	/AC ±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								
/oltage				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			
hase			1Ø (Parallel/Poly-Pl	nase Linking for 1Ø3W or 3Ø4W)				
requency			4	40.0 - 1000 Hz				
ΉD			<1%	(Resistive Load)				
Crest Factor			Inrush CF ≥3 at 110 V,	Continuous Current CF ≥3 at 110 V				
ine Regulation				± 0.1 V				
oad Regulation				± 0.5 V				
DC OUTPUT VOL	TAGE							
/oltage		4005.111	2005-111	5 - 420 V				
Nax Power	0.2101/	1000 W	2000 W	4000 W	6000 W			
Max Current 1Ø	0 - 210 V 0 - 420 V	4.8 A 2.4 A	9.6 A 4.8 A	19.2 A 9.6 A	28.8 A 14.4 A			
Ripple & Noise (Pea		2.4 A <3.		9.0 A	14.4 A			
IEASUREMENT	K to reak)	<	5 V		<4.0 V			
MEASOREMENT	Range			0.0 - 400.0 V				
/oltage	Accuracy	± (1% of reading			ling + 5 counts) >5 V			
			0.0 - 1000 Hz					
requency	Range							
	Accuracy Range	0.005 A - 13.00 A	0.005 A - 26.00 A	.1 Hz, 501 - 1000 Hz ± 0.2 Hz 0.05 A - 52.00 A	0.05 A - 78.00 A			
Current (RMS)	Accuracy	± (1% of reading + 5 counts)		± (1% of reading + 5 counts) @ 4	10 - 100 Hz, ± (1% of reading + 5 counts) ading + 5 counts) @ 501 - 1000 Hz >0.2			
	Range	0.0 A - 38.0 A 0.0 A - 76.0 A		0.0 A - 152 A 0.0 A - 228 A				
urrent Peak	Accuracy	± (1% of r		reading + 5 counts)				
	Range	0.0 W - 1300 W 0.0 W - 2600 W		0.0 W - 5200 W 0.0 W - 7800 W				
ower	L	± (2% of reading + 1	5 counts) at PF >0.2	+ (2% of reading	g + 5 counts) at PF ≥0.2			
	Accuracy	_ (_ /: - · · · · · · · · · · · · · · · · · ·	, ,		ling + 5 counts) at PF ≥ 0.2			
		0.0 VA - 1300 VA	0.0 VA - 2600 VA	0.0 VA - 5200 VA	0.0 VA - 7800 VA			
Power Apparent (VA)	Range	0.0 VA - 1500 VA			0.0 VA - 7800 VA			
	Calculated Formula		-	, 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		√(VA)²-('	W) ² , Calculated value				
ower 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								
Frounded Neutral	Option 2			All Models				
iPIB Interface	Option 3	All Models						
Remote Memory	Option 4	All Models						
thernet Interface	Option 6			All Models				
inking Card	Option 8			All Models				
GENERAL								
Operation Environr	ment		0 - 4	0°C / 20 - 80% RH				
Dimensions (W × 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		ð2W	310XAC	320XAC	340XAC	360XAC			
Linked Unit			2 - 3 Units, 1Ø2W (L1 - N)						
Voltage	Phase		5 - 300 V						
Power	# Units	2	1.8 kVA	3.6 kVA	7.2 kVA	10.8 kVA			
Max	# Units	3	2.7 kVA	5.4 kVA	10.8 K 10.8 kVAA A	16.2 kVA			
Max Current	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			
Line (RMS)	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 Polyphas	e Output 1	1Ø3W	310XAC	320XAC	340XAC	360XAC			
Linked Units				2 Units @ 18	30°, 1Ø3W (L1-L2 - N)				
Voltage	Phase			1	0 - 600 V				
	Line				5 - 300 V				
Power	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 Polyphas	e Output 3	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		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			
Delta	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 D	C Output	1Ø2W	310XAC	320XAC	340XAC	360XAC			
Linked Units	1			2 - 3 Uni	ts, 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	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			
Line		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			

Measurement (To Linking Parallel 1			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						
		н	± 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		counts) x # of Linked Units & 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%	± (1.5% of reading +15 counts x Link Units @ 40.0 - 70.0 Hz an Current (RMS) >3.00 A, ± (1.5% of reading +15 counts			
		н		counts) x # of Linked Units & Current is >5.00 A	of reading +15 counts) x Link Units @ 70.1 - 1000 Hz, and Current (RMS) >10.00 A	x Link Units @ 70.1 - 1000 Hz, and Current (RMS) >15.00 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				d Units) at PF ≥0.2, 40 - 500 Hz, and Curren I Units) at PF ≥0.3, 501 - 1000 Hz, and Curre				
Power Apparent	Range	2	0 W - 2600 VA	0 W - 5200 VA	0 W -10400 VA	0 W - 15600 VA			
(VA)		3	0 W - 3900 VA	0 W - 7800 VA	0 W - 15600 VA	0 W - 23400 VA			
	Accuracy	Accuracy V:		V x A, C	alculated 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 (To Linking Polyphas			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						
		Н	± 0.2 Hz @ 501 - 1000 Hz						
Current (RMS)	Range	2	(L1 Current + L2 Current)/2						
	Accuracy		\pm (1% of reading + 5 counts) at 40 - 70 Hz \pm (1% of reading + 5 counts) at 70.1 - 500 Hz, and output current (RMS) >0.200 A \pm (1% of reading + 5 counts) at 501 - 1000 Hz, and output current (RMS) >0.300 A						
Power (W)	Range	2		L1 Pov	ver + L2 Power				
	Accuracy	2		L1 Power + L2 F	Power, Calculated Value				
Power Apparent	Range	2		L1	VA + L2 VA				
(VA)	Accuracy	2		L1 VA + L2 \	/A, Calculated Value				
Power Reactive (Q)	Range	2		L1 V	YAR + L2 VAR				
	Accuracy	2		L1 VAR + L2 \	/AR, Calculated Value				
Devery Friedram	Range				0 - 1.000				
Power Factor	Range Accuracy		0 - 1.000 (L1 P + L2 P) / (L1 VA + L2 VA), Calculated and displayed to three significant digits						

Measurement (To Linking Polyphas			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						
		Н		± 0.2 H	lz @ 501 - 1000 Hz				
Current (RMS)	Range				(A+B+C)/3				
	Accuracy			± (1% of readin - (1% of reading + 5 counts) at 70.1 (1% of reading + 5 counts) at 501					
Power (W)	Range			A Power -	+ B Power + C Power				
	Accuracy			Cal	culated Value				
Power Apparent	Range		A VA + B VA + C VA						
(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 (To Linking Parallel D			310XAC	320XAC	340XAC		360XAC		
Voltage	Range			(0.0 - 420.0 V		·		
	Accuracy		± (1% of reading -	+ 2 counts) >5 V	± (1% of read		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 cour Current :		± (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 (E @ CEES

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





Applicable



APT Benefits



Specifications – 7000 Series

INPUT			7004	7008	7016	7040		
Phase				1	Ø			
Voltage			115/230	VAC ± 10%	230 V/	AC ± 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				1	Ø	1		
Frequency				40.0 -	500 Hz			
THD				< 1% (Resi	stive Load)			
Crest Factor				2	23			
Line Regulation				±C	0.1 V			
Load Regulation				± (0.5% of output + 0	0.5 V) at Resistive Load			
MEASUREMENT								
	Range			0.0 - 4	100.0 V			
Voltage	Accuracy		± (1% of read	ling + 2 counts)	\pm (1% of reading + 5 counts) >5V			
-	Range		0.0 - 500 Hz					
Frequency	Accuracy		± 0.1 Hz					
Comment (DMC)	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		
Current (RMS)	Accuracy			± (1% of readi	ading + 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		
Current Peak	Accuracy			± (1% of reading + 5 counts)				
	Range		0.0 W - 650 W	0.0 W - 1300 W	0.0 W - 2600 W	0.0 W - 5200 W		
Power	Accuracy	L	\pm (2% of reading +	15 counts) at PF >0.2	± (2% of reading + 30 counts) at PF >0.2	± (2% of reading + 5 counts) at PF		
		Н	\pm (2% of reading -	- 5 counts) at PF >0.2	± (2% of reading + 10 counts) at PF >0.2	≥0.2 Voltage >5 V Current >0.05 A		
Power Factor	Range				- 1.000			
	Accuracy			W/VA, Calculated and displa	yed to three significant digits			
GENERAL								
Rackmount Handle	es			Star	dard			
USB/RS-232 Interfa	ice			Star	dard			
Lockout				Key lockout or pa	ssword protection			
Front Output			Universal Receptacle	Universal Receptacle	Universal Receptacle	-		
Efficiency				≥80% (at	Full Load)			
Operation Environ	ment			0-40°C/2	20 - 80% RH			
Dimensions (W x H	I 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%
- Grounded Neutral
- GPIB Interface
- 7 Remote Memories
- Ethernet Interface
- DC Output

Applicable





Appliance







APT Benefits



online aptsources.con

Specifications - 6000 Series

INDUT			6005	6010	6020	6040	
	NPUT		6005	6010	6020	6040	
Phase			1Ø				
Voltage			115/230 VAC ± 10% 208 VAC ± 10%				
Frequency				47 - 5	500 Hz		
OUTPUT							
Voltage				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			\pm (0.5% of output + 0.5 V) at Resistive Load				
MEASUREMENT							
Voltage	Range		0.0 - 400.0 V				
	Accuracy		± (1% of read	ing + 2 counts)	± (1% of readin	g + 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 readi	eading + 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)	\pm (2% of reading + 30 counts)	+ (2% of read	ling + 5 counts)	
		Н	\pm (2% of reading + 5 counts)	\pm (2% of reading + 10 counts)	± (2% of reading + 5 counts)		
Power Factor	Range		0.000 - 1.000				
Accuracy			W/VA, Calculated and displayed to three significant digits				
GENERAL							
Rack Mount Kit				Stan	dard		
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 VOL	TAGE						
Voltage				0-4	00 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 chance	

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 benchtop applications, they feature four LED displays that monitor voltage, current, frequency, power, and power factor. The easyto-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





Laboratory





APT Benefits



Specifications – 5000 Series

INPUT		5005	5010	5020	5040		
Phase		10					
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		\pm (2% of reading + 10 counts) at PF \geq 0.2					
Power Factor Range Accuracy		0.000 - 1.000					
		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 Displays		-	- 4 I ED C	Universal Receptacle	Terminal Block		
Operation Key Feat	1110	4 LED Displays					
Voltage Limits	ure	Up/Down Arrow Keys Programmable High & Low Limits					
Frequency Limits		Programmable High & Low 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 Environm	ment	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		

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





Lighting





Test & Measurement

APT Benefits



Specifications – VariPLUS

INPUT	105			
Phase		10		
Voltage		115/230 VAC Selectable \pm 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	\pm 0.1% Hz of setting \pm .03%		
Current (RMS)	Range	0.0 – 6.50 A		
	Accuracy	± (1% of reading + 5 counts)		
Power	Range	0 - 650 W		
	Accuracy	\pm (2% of reading + 10 counts) at PF \geq 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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To find your nearest representative contact us at +1-847-367-4378 or international@aptsources.com



AC Power Sources for All Applications To order or for more information please contact us toll-free **+1-877-322-7693** or online **aptsources.com**

