300XAC Series (E

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
- 7 Remote Memories
- NI LabVIEW **DRIVER AVAILABLE**

Applicable Industries





Appliance



Laboratory











Ethernet Interface

Linking Card

online **aptsources.com**

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

Scan the QR code to download our 300XAC Linking Technical Guide.





Specifications – 300XAC Series

Non-set of the set of t	INPUT			310XAC	320XAC	340XAC	360XAC			
Velocity100-26 Vec 21%200-26 Vec 21%200-26 Vec 21%FequencyVector<	Phase			1Ø			1Ø or 3Ø			
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Net Weight 4716 lbs (21 kg) 49 lbs (22 kg) 82 lbs (37 kg) 117 lbs (53 kg)			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)			

Specifications – 300XAC Series

Linking Parallel	Output 1@	02W	310XAC	320XAC	340XAC	360XAC	
Linked Unit			2 - 3 Units, 1Ø2W (L1 - N)				
Voltage	Phase		5 - 300 V				
Power	# Inits	2	1.8 kVA	3.6 kVA	7.2 kVA	10.8 kVA	
Max	# 01113	3	2.7 kVA	5.4 kVA	10.8 K 10.8 kVA	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	se Output 1	Ø3W	310XAC	320XAC	340XAC	360XAC	
Linked Units			2 Units @ 180°, 1Ø3W (L1-L2 - N)				
Voltage	Phase		10 - 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 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	1	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, 102W (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	

Specifications – 300XAC Series

Measurement (To Linking Parallel 1	tal) Ø2W		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	± (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		\pm (2% of reading + 10 counts) x (# of Linked Units) at PF ≥0.2, 40 - 500 Hz, and Current >5.0 A \pm (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	ower Factor Range		0 - 1.000				
	Accuracy		W / VA, Calculated and displayed to three significant digits				
Measurement (To Linking Polyphas	tal) e 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				
	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 Power + L2 Power				
	Accuracy 2		L1 Power + L2 Power, Calculated Value				
Power Apparent	Range 2		L1 VA + L2 VA				
(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				