

APS 3000 SERIES - THREE PHASE VOLTAGE & FREQUENCY CHANGERS

APS 3000 SERIES

The APS 3000 series consists of eight 3 phase output instruments ranging in size from 3 kVA to 120 kVA. The converters allow the user to duplicate a utility grid of either 50 or 60 hertz for export product testing or operation of imported equipment.

The frequency can be adjusted to 400 hertz for applications such as the testing of military/avionics equipment or for the operation of 400 hertz electronics that are on-board an aircraft or a military vessel. The adjustable frequency band of 45 to 500 Hertz in conjunction with the dual voltage ranges of 0-150 volts or 0-300 volts provides full capabilities for testing and operating electronics worldwide. Setup and operation of the APS 3000 Series is exceptionally easy. The simple front panel layout allows users to continuously vary voltage and frequency or to select preset standard frequency settings. Individual meter displays provide digital readouts for frequency, voltage and current while a digital multimeter displays power or power factor. The APS 3000 Series converters are a simple and cost effective solution for all of your AC power conversion needs!

Key Features & Specifications for the APS 3000 Series

- Dual Output Voltage Ranges
- Input to Output Isolation
- Output Voltage Distortion (Vthd) less than 1%
- Input Requirements: 208, 220, 240, 380, 415, 480 VAC \pm 10%, 3 phase, 47-63 Hz. (3kVA and 6kVA, 220, 230, 240VAC 1 phase, APS 3090 and larger require 380V or higher)
- Intuitive Front Panel Controls
- Easy to Read LED Displays: Frequency, Voltage, Current, Power and Power Factor
- Memory Locations: Can save three desired settings of any voltage, frequency and current limit output parameters



Three Phase Power: 3kVA to 180kVA
Voltage: 150V/300V/600V
Frequency: 45-500Hz



Model APS 3060

AVAILABLE 3000 SERIES MODELS

MODEL	RATED POWER (VA)	No. PHASES	FREQ RANGE (Hz)	VOLTAGE	CURRENT (A) per Phase	AC INPUT POWER	DIMENSION
APS 3003	3,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	8.4 / 2.1	230V, 1 ϕ , 47-63 Hz	34 x 26 x 17"
APS 3006	6,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	16.8 / 8.4	230V, 1 ϕ , 47-63 Hz	34 x 26 x 17"
APS 3009	9,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	25.5 / 12.6	208-480, 3 ϕ , 47-63 Hz	33 x 39 x 24"
APS 3015	15,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	42 / 21	208-480, 3 ϕ , 47-63 Hz	33 x 39 x 24"
APS 3030	30,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	84 / 42	208-480, 3 ϕ , 47-63 Hz	38 x 39 x 24"
APS 3060	60,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	168 / 84	208-480, 3 ϕ , 47-63 Hz	65 x 39 x 32"
APS 3090	90,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	252 / 126	380-480, 3 ϕ , 47-63 Hz	71 x 39 x 48"
APS 3120	120,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	336 / 168	380-480, 3 ϕ , 47-63 Hz	71 x 47 x 48"
APS 3150	150,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	420 / 210	380-480, 3 ϕ , 47-63 Hz	71 x 47 x 63"
APS 3180	180,000	3	45 - 500	0-150 / 0-300V _{L-N} 0-260 / 0-520V _{L-L}	504 / 252	380-480, 3 ϕ , 47-63 Hz	71 x 47 x 63"

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TECHNICAL SPECIFICATIONS

AC OUTPUT		APS3003	APS3006	APS3009	APS3015	APS3030	APS3060	APS3090	APS3120	APS3150	APS3180
Power	Total	3 kVA	6 kVA	9 kVA	15 kVA	30 kVA	60 kVA	90 kVA	120 kVA	150 kVA	180 kVA
	Per Phase	1 kVA	2 kVA	3 kVA	5 kVA	10 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA
Output Phases		3Ø / 5 Wire (L1, L2, L3, N, Gnd)									
Voltage	Ranges	Low Range: 0-150V _{L-N} / 260V _{L-L} , High Range: 0-300V _{L-N} / 0-520V _{L-L} 300V _{L-N} /520V _{L-L} and 600V _{L-N} /1040V _{L-L} Range pairs available - Option 600									
	Resolution	0.1 V									
	Accuracy	± (1.0% + 0.2 V)									
Load Regulation		± 0.5%									
Harmonic Distortion (Vthd)		≤ 1% (Resistance Load)									
Frequency	Range	45 - 500 Hz									
	Resolution	0.1 Hz at 45 - 99.9 Hz 1 Hz at 100 - 500 Hz									
	Accuracy	± 0.2%									
Phase Current	150V range	8.4 A	16.8 A	25.2 A	42.0 A	84.0 A	168.0 A	252.0 A	336.0 A	417.0 A	500.0 A
	300V range	4.2 A	8.4 A	12.6 A	21.0 A	42.0 A	84.0 A	126.0 A	168.0 A	208.0 A	250.0 A
Crest Factor		≥ 3 to 1									
Protection		Over Current, Short Circuit, Over Temp.									
Efficiency		> 85% (at full load)									

AC INPUT		APS3003	APS3006	APS3009	APS3015	APS3030	APS3060	APS3090	APS3120	APS3150	APS3180
Input Phases		1Ø / 2 Wire + Ground			3Ø / 3W + ground			3Ø / 4W + ground			
Voltage		230V ± 15%		208V, 220V, 240V (3W+G), 380V, 415V, 480V (4W+G) ±10%				380V, 415V, 480V (4W+G) ±10%			
Frequency		47 - 63Hz									

MECHANICAL		APS3003	APS3006	APS3009	APS3015	APS3030	APS3060	APS3090	APS3120	APS3150	APS3180
Dimensions	inches	34 x 26 x 17		33 x 39 x 24		38 x 39 x 24		65 x 38 x 32		71 x 39 x 48	
	(HxDxW) mm	864 x 660 x 432		839 x 980 x 600		949x980x600		1662x980x800		1805x980x1200	
Weight (Kg / lbs.)		140/308	175/385	299/659	362/798	547/1206	909/2004	1505/3318	2139/4716	1800/3968	1800/3968

DISPLAYS & CONTROLS	
4 Digit LED Meters	Frequency, Voltage, Current, Power or Power Factor (simultaneously)
PLC Remote Interface	Run Programs P1, P2, P3, and Output On/Off
Memory (standard)	3 Programmable Memories with 5 steps each for Voltage, Frequency, Test Time, Delay Time, Current, Power and PF Limits
Calibration	Front Panel Calibration
Interface (optional)	GPIB or RS232
	Expands Memories from 3 to 8
Auto Voltage Adjust	Enables improved voltage regulation within ± 0.1 V

ENVIRONMENTAL	
Operating Temperature	32° - 104° F / 0° - 40° C
Relative Humidity	80%, non-condensing
Altitude	Below 6500 feet / 2000 m

