ANALYTIC SYSTEMS
Power Conversion Solutions

#207 12448 82nd Ave.
Surrey, BC V3W 3E9 CANADA

+1 (604) 543-7378 · phone
1-800-668-3884 · toll free
+1 (604) 543-7354 · fax

www.analyticsystems.com

AC/AC Frequency Converters

ASW-VFC501 Series
Variable AC Power Source

Description

The ASW-VFC501 Series is a variable AC power source designed to deliver power at a selectable frequency between 47Hz to 424Hz.

The unit uses PWM technology and generates a pure sine-wave output with typical distortion of less than 5%. The output voltage is continuously adjustable from 0 to full scale.

The ASW-VFC501 Series AC power source can be used as a compact AC/AC frequency converter, suitable for a wide range of applications.

It features full electronic protection, high efficiency and low output noise. To ensure long life the unit is fan cooled.

Benefits

- Ultra-Quiet
- Test sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Test Facilities
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

Features

- Variable output voltage & frequency
- Compact size, light weight
- Sinusoidal wave shape
- Digital meters for Vrms & frequency
- Isolated, floating output
- 500VA output power
- Full electronic protection
- High reliability
- Professional quality
- Field-proven design topology

Specifications

Input Voltage	115 or 230VAC ± 15% 48Hz ….. 410Hz (Auto-ranging Optional)
Input Protection	Thermal fuse, Inrush current limiting
Isolation	2250VDC input to chassis / 2250 VDC input to output / 8mm spacing 2250VDC output to chassis
Output Voltage	0 … 260V range; max current 2A
Output frequency	47 …439Hz in one band 50,100,200,400Hz 'hot' push buttons
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum ± 6% from no load to full load
Output Ripple/Noise	High frequency ripple is better than 500mVrms (20 MHz BW)
Output Protection	Current limiting with short circuit protection; Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
Output overload Protection	Hiccup at 2.4A rms
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0^{o}C to +50^{o}C
Frequency Stability	± 0.1%
Temperature Drift (for output voltage level)	0.05% per ^{o}C over operating temperature range
EMI	Typically meets EN 55022 Class B
Dimensions	7.3" x 5.54" x 14" enclosed case (W x H x L)
Connections	Input: IEC inlet connector Output: banana sockets or standard AC receptacles
Weight	9 pounds (4 kg)
Safety	Full compliance to IEC950, CSA C22.2 No. 950 and UL 1950

Warranty: Two years subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications Subject to Change Without Notice
Designed and Manufactured in Canada

Available From:

ANALYTIC SYSTEMS
Quality since 1976

#207 12448 82nd Ave.
Surrey, BC V3W 3E9 CANADA
+1 (604) 543-7378 • phone
1-800-668-3884 • toll free
+1-604-543-7354 • fax
www.analyticsystems.com