

ANALYTIC SYSTEMS

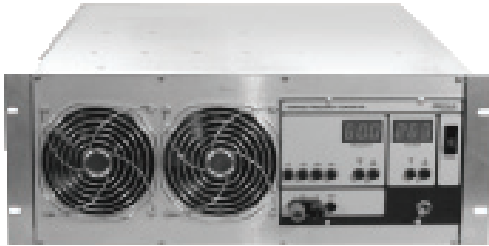
Power Conversion Solutions

AC/AC Frequency Converters

Model

ASW-VFC2000

2000VA Variable AC Power Source



Description

The ASW-VFC2000 Series is a variable AC power source with an adjustable output of 0 ... 130V (maximum current 15A) and 0...250V (maximum current 8A). The unit uses PWM technology to generate 2000VA pure sine-wave output with a total harmonic distortion less than 5% at full load.

The ASW-VFC2000 Series AC power source is suitable for a diverse range of industrial, engineering and academic, laboratory applications. It can also be used as an AC frequency converter. The unit is fan cooled and features full electronic protection, high efficiency and low output noise.

Benefits

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

Design Features

- ◆ Variable output voltage & frequency
- ◆ Compact size, light weight
- ◆ Sinusoidal wave shape
- ◆ Digital meters for Vrms & frequency
- ◆ Isolated, floating output
- ◆ 2000VA output power
- ◆ Full electronic protection
- ◆ High reliability
- ◆ Professional quality
- ◆ Field-proven design topology

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

AC/AC Frequency Converters

ASW-VFC2000 Series 2000VA Variable AC Power Source

Input Voltage	115 or 230VAC \pm 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...130V range; max current 15A 0...250V range; max current 8A
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 \pm 5% from no load to full load
Output Protection	Current limiting with short circuit protection; Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	Typically meets EN 55022 Class B
Load Crest Factor	Maximum 3.0 at 90% load
Operating Temperature Range	0° C to +50°C
Frequency Stability	\pm 0.1%
Temperature Drift (for output voltage level)	0.05% per °C over operating temperature range
Dimensions	4U x 19" x 15" enclosed case (H x W x D)
Connections	Input: terminal block Output: binding posts
Weight	30 pounds (13.4 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



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