

500VA VARIABLE AC POWER SOURCE

VFC 500 SERIES

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



The VFC 500 Series is a variable AC power source designed to deliver power at a selectable frequency between 47Hz to 439Hz. The unit uses PWM technology and generates a sine-wave output with typical distortion of less than 5%. The output voltage is continuously adjustable from 0 to full scale.

The VFC 500 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. The unit is fan cooled.

SPECIFICATIONS

Input Voltage

115 or 230VAC $\pm 15\%$
47Hz 410Hz
Auto-ranging optional

Input Protection

Internal safety fuse
Inrush current limiting

Input Isolation

2250VDC input to chassis
2250 VDC input to output
8mm spacing
2250VDC output to chassis

Full compliance to IEC950, CSA
C22.2 No. 950 and UL 1950

EMI

EN 55022 Class A
minimum

Output Voltage

0...264Vrms range; max. current
4Arms; max power 500VA

Output frequency

47 ...439Hz in one band
50, 100, 200, 400Hz 'hot'
push buttons

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Efficiency

Typically 80% at full load

Line Regulation

Maximum 0.5%

Load Regulation

Maximum $\pm 5\%$ of V_{out} max
from no load to full load.

Output Ripple/Noise

High frequency ripple is less
than 500mVrms (20 MHz BW)

Output Protection

Current limiting with short circuit
protection. Thermal shutdown
with automatic recovery in case of
insufficient airflow

Output Overload Protection

Hiccup at 4.8Arms

Load Crest Factor

Maximum 3.0 at 90% load

Operating Temperature Range

0°C to +50°C

Temperature Drift

(for output voltage level)
0.05% per °C over operating
temperature range

Cooling

Built-in fan

Frequency Stability

$\pm 0.1\%$

Environmental Protection

Basic ruggedizing

Dimensions

7.3" x 5.54" x 14" enclosed case
(W x H x D)

Connections

Input: IEC inlet connector
Output: banana sockets on front-
panel

Weight

9 pounds (4.kg)

Warranty: Twelve months 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.

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems
and DC-input fluorescent lamp inverters since 1982. Custom or standard.**
Absopulse is a BAPT-approved Facility



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