Variable AC Power Supply

Series ZAF
AC Power Supply Unit / Frequency Converter
500W – 2000W / 0...270VAC, 50/60Hz
500W – 2000W / 0...270VAC, 45...450Hz

0...270VAC Output voltage adjustable via potentiometer
Sinusoidal output voltage with ultra-low distortion
Output frequency stabilized above a crystal,
Frequency 50Hz and 60Hz eligible or adjustable from 45 to 500Hz
Output voltage- and frequency indication above a
3Digit RMS display
Input, low voltage and overvoltage protection against overload and short circuit at the outlet
Automatic overload and over temperature protection
Input fuse protection
19” rack or bench top mounting

The ZAF Series Frequency Converter has been developed to generate an AC voltage at the selected frequency and a maximum output of 3kVA. The output voltage is electronically adjustable via a potentiometer on the control panel from 0 to 270VAC. Since a quartz crystal controls the frequency, it can either be set to 50 Hz or 60 Hz or the variable unit can be set between 45 Hz and 500 Hz. Active PFC reduces harmonics on the source.

Input:
Input voltage 95...264VAC, 45...63Hz, 1 phase
Power factor 0.99 at full load, nominal feed-in
Switching frequency 20 kHz nominal

Output:
Output voltage 0...270VAC
Output current see table
Output frequency see table
Input delay max. 10s at start up until output stable
Wave shape Sine wave
Distortion <5%
Frequency regulation ± 2%
Power factor 0.8

Protection:
Isolation min. ± 600VDC, Output to earth
Fault alarm LED group error alarm
Overload protection Automatic LED
Thermal protection Automatic LED
Input Overvoltage protection
Low Voltage protection
Fuse at the input circuit
Output Overload protection
Protection against short circuit

Environmental Conditions:
Operating temperature 0...+50°C
Storage temperature 20...+70°C
Humidity ≤ 90% RH, non-condensing

Safety:
Electrical safety EN60950
EMC: EN55022, class A

Operating and Control:
Voltage indication LED display RMS 3 digits
Frequency indication LED display RMS 3 digits
Adjustment Voltage via coarse/fine Potentiometer
Frequency, manual with matrix
Logic circuitry

Connectors:
Input 16A, 250V ac Mains supply
Physical Specifications:
Dimensions 19”x3HEx460mm
Weight see table

Physical Specifications:
Dimensions 19”x3HEx460mm
Weight see table
### Models:

<table>
<thead>
<tr>
<th>Output Current (A)</th>
<th>Frequency (Hz)</th>
<th>Capacity (VA)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2.0</td>
<td>45...500Hz</td>
<td>500VA</td>
<td>ZAFV500/270/2</td>
</tr>
<tr>
<td>0-4.0</td>
<td>&quot;</td>
<td>1000VA</td>
<td>ZAFV1000/270/4</td>
</tr>
<tr>
<td>0-6.0</td>
<td>&quot;</td>
<td>1500VA</td>
<td>ZAFV1500/270/6</td>
</tr>
<tr>
<td>0-8.0</td>
<td>&quot;</td>
<td>2000VA</td>
<td>ZAFV2000/270/8</td>
</tr>
<tr>
<td>0-12.0</td>
<td>&quot;</td>
<td>3000VA</td>
<td>ZAFV3000/270/12</td>
</tr>
</tbody>
</table>

### Weight:

<table>
<thead>
<tr>
<th>Output Current (A)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>20</td>
</tr>
<tr>
<td>4.0</td>
<td>21</td>
</tr>
<tr>
<td>6.0</td>
<td>23</td>
</tr>
<tr>
<td>8.0</td>
<td>30</td>
</tr>
<tr>
<td>12.0</td>
<td>35</td>
</tr>
</tbody>
</table>

### Dimensions:

432x133x460mm (WxHxD)

---

**ZAF Front View**
1. Power ON/OFF
2. SET Output Frequency, 4-digit
3. Potentiometer to set frequency
4. Output-voltage display 3 ½-digit
5. Push button for voltage, current, power display
6. Output voltage adjustment
7. Output ON
8. Select Output Voltage range
9. Output abnormal conditions
10. Ventilation inlet/outlet

**ZAF Rear View**
11. Output connection
12. Input power
13. RS232