

# 150VA, Rugged, Industrial Quality AC/AC Frequency with 26Vac, 400Hz Output

## 110V or 230Vac Input to 26Vac Output at 400Hz

### FC 150-E/26M-F3 Series



- Sinusoidal output voltage
- Rugged, industrial quality
- Filtered input
- Conduction/convection cooled
- Full electronic protection
- Field-proven design topology

This rugged, AC/AC frequency converter uses our field proven, microprocessor-controlled FCH 265 technology to generate the required output power with pure sine wave output voltage. The AC/DC input stage boosts the input voltage to a higher DC bus voltage, which feeds the DC/AC inverter to generate the required AC output. The use of high frequency conversion enables a compact construction, low weight and high efficiency. Cooling is by baseplate to a heatsinking surface and by natural convection. Full electronic protection, generous design headroom and the exclusive use of components with established reliability contribute to high MTBF. The unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<p><b>Input Voltage</b> 110Vac or 230Vac (47... 63Hz) Factory selected for required input</p> <p><b>Input Protection</b> Inrush current limiting Varistors Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> 2250Vdc input to chassis 3000Vdc input to output 1500Vdc output to chassis Floating output</p> <p><b>Standards</b> Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1</p> <p><b>EMI</b> EN 55022 Class A with margins</p>	<p><b>Output Voltage</b> 26Vac/6A, 400Hz 150VA continuous; Output is floating, either terminal can be grounded Other outputs are available on request.</p> <p><b>Output Wave Form</b> Sinusoidal</p> <p><b>Total Harmonic Distortion</b> Less than 5% at full load</p> <p><b>Line/Load Regulation</b> ± 3% from zero load to full load</p> <p><b>Load Crest Factor</b> 2 at 90% load</p> <p><b>Output Noise</b> High frequency ripple is less than 500mVrms (20MHz BW)</p> <p><b>Output Overload Protection</b> Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling</p> <p><b>Output Overvoltage Protection</b> 40Vac by internal supply voltage limiting</p>	<p><b>Efficiency</b> Typically 80% at full load</p> <p><b>Operating Temperature Range</b> 0° C to +50° C for full specification Extended temperature ranges available</p> <p><b>Temperature Drift</b> 0.05% per °C over operating temperature range</p> <p><b>Cooling</b> Conduction via base plate to customer heat-sink or chassis and natural convection</p> <p><b>Environmental Protection</b> Basic ruggedizing Conformal coating Full ruggedizing available as an option</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 - 95% non-condensing</p> <p><b>MTBF</b> Min. 120,000 hours at 45°C Demonstrated MTBF is significantly higher</p>	<p><b>Indicators</b> None</p> <p><b>Control Input</b> None</p> <p><b>Alarm Output</b> None Option: output fail alarm (Form C)</p> <p><b>Package/Dimensions (W x H x D)</b> F3: 132 x 64 x 300 mm 5.2" x 2.5" x 11.8" Includes terminal block and flanges Mounting holes are clear</p> <p><b>Weight</b> 2kg; 4.4lb</p> <p><b>Connections</b> 12-pole barrier type terminal block, 3/8" spacing</p> <p><b>RoHS Compliance</b> Fully compliant</p> <p><b>Warranty</b> Two years subject to application within good engineering practice</p> <p><b>Terminal Block Pin-out</b></p>
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OUTPUT						INPUT					
NOT USED	L1	L2	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	GND	N	PH
1	2	3	4	5	6	7	8	9	10	11	12

**The specifications on this data sheet are generic and are subject to change. Enhancements to these specifications can be provided upon request.**

*OEM of professional quality AC/DC power supplies and battery chargers, DC/DC converters, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility*



**ABSOPULSE ELECTRONICS LTD**  
110 Walgreen Road, Ottawa, Ontario. K0A 1L0. CANADA  
Tel: +1-613-836-3511 | Fax: +1-613-836-7488  
E-mail: [absopulse@absopulse.com](mailto:absopulse@absopulse.com) | <http://www.absopulse.com>