

## 700W Rugged, AC/DC Industrial Power Supply HVC 319F-FT Series



- Field-proven rugged design
- Industrial and other demanding environments
- Single regulated and adjustable output
- Fan cooled
- Full electronic protection
- N+1 redundancy available

This rugged, industrial quality power converter uses field proven topology. It is a mature design with an excellent track record in hundreds of applications. It is fan cooled by two built-in fans. An optional built-in redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy. An optional Form C output fail alarm is also available. This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality controls. Customized versions are also available.

### SPECIFICATIONS

<p><b>Input Voltage</b> 115/230Vac +/- 15% 47 - 63Hz Voltage selection by internal jumper</p>	<p><b>Output Voltage/Current</b> 125VDC/5.6A or 250VDC/2.8A are standard Consult factory for other voltages</p>	<p><b>Efficiency</b> Output voltage dependent . Typically 85% at full load</p>	<p><b>Control Input</b> None</p>
<p><b>Input Protection</b> Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified min. input will not damage the unit</p>	<p><b>Redundancy Diode</b> None. Available as option</p>	<p><b>Operating Temperature Range</b> 0 to+50°C for full specification, Extended temp. range available</p>	<p><b>Alarm Output</b> None on standard version Optional Form C alarm available</p>
<p><b>Isolation</b> 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p>	<p><b>Line/Load Regulation</b> +/- 1% combined from zero load to full load</p>	<p><b>Temperature Drift</b> 0.03% per °C over operating tempera range</p>	<p><b>Package/Dimensions (W x H x L)</b> FF4: 151 x 62 x 356 mm 6"x 2.43"x 14.03" including terminal block, flanges and fans Mounting holes are clear</p>
<p><b>Standards</b> Designed to meet EN 60950 and corresponding UL and CSA standards</p>	<p><b>Dynamic Response</b> Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p>	<p><b>Cooling</b> By two built-in fans</p>	<p><b>Weight</b> 2.5 Kg (5.3 lb)</p>
<p><b>EMI</b> EN55022 Class A as a minimum</p>	<p><b>Output Ripple / Noise</b> Less than 1% peak to peak or 0.2%rms of the output voltage (20MHZ BW)</p>	<p><b>Environmental Protection</b> Basic ruggedizing Full ruggedizing and conformal coating as option</p>	<p><b>Connections</b> 12-pole barrier type terminal block with 3/8" spacing</p>
<p><b>Switching Frequency</b> 55 KHz +/-3KHz</p>	<p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p>	<p><b>MTBF</b> 160,000 hours @ 45 °C Fans excluded</p>	<p><b>RoHS Compliance</b> (Directive 2002/95/EC) According to requirements</p>
<p><b>Hold Up Time</b> Min. 5ms at full load for 5% drop of the output voltage</p>	<p><b>Output Over-voltage Protection</b> Second regulator loop, completely stable and independent of main regulator loop</p>	<p><b>Indicators</b> None</p>	<p><b>Warranty</b> Twelve months subject to application within good engineering practice.</p>

**Enhancements to these general specifications and customizing can be accommodated upon request.**

*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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