

## 700W, SINGLE-OUTPUT POWER SUPPLY WITH PFC PFC700 SERIES

- Compact size: 2.17" x 8.2" x 10"
- Electronic power factor correction
- Adjustable single output
- Up to 700W output power
- Full electronic protection
- Telecom quality



The PFC700 was designed for heavy-duty applications requiring power factor corrected input. The design utilizes asynchronous technology for the PFC-input stage and half-bridge topology after the input stage. The unit can be equipped with an internal redundancy diode module (not installed on the standard version).

### SPECIFICATIONS

<p><b>Input Voltage</b> Universal 90 ... 264VAC 47 - 63Hz Input Current: 10A max.</p>	<p><b>Hold Up Time</b> Min. 10ms at any input for 5% drop of the output voltage</p>	<p><b>Audio Band Noise</b> Max 32dB<sub>rnc</sub></p>	<p><b>Cooling</b> By 2 internal fans</p>
<p><b>Input Protection</b> Inrush current limiting by NTC surgeistor Internal thermal fuse Varistor S14K275 Lower voltage than the specified minimum input will not damage the unit</p>	<p><b>Switching Frequency</b> 70-150KHz Boost section 50KHz Half Bridge section</p>	<p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient airflow (self resetting) Current Limit: 62A +/- 2A</p>	<p><b>MTBF</b> 150,000 hours @ 45°C Fans excluded</p>
<p><b>Power Factor</b> Min. 0.97 at full load for the entire input range. Meets EN61000-3-2</p>	<p><b>Output Voltage/Current</b> 12V +/- 0.1V / 60A Output is floating, either terminal can be grounded</p>	<p><b>Output Over-voltage Protection</b> Second regulator loop, completely stable and independent of main regulator loop OVP setting: 14V +/- 0.5V</p>	<p><b>Indicators</b> None</p>
<p><b>Isolation</b> 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p>	<p><b>Redundancy Diode</b> Option (not installed)</p>	<p><b>Efficiency</b> min. 75% at full load</p>	<p><b>Control Input</b> None</p>
<p><b>Standards</b> Designed to meet IEC950 and corresponding UL and CSA standards.</p>	<p><b>Line/Load Regulation</b> +/- 1% combined from zero load to full load</p>	<p><b>Operating Temperature Range</b> 0°C to 50°C for full specification with proper installation</p>	<p><b>Alarm Output</b> None</p>
<p><b>EMI</b> EN55022 Class A</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>Temperature Drift</b> 0.03% per °C over operating</p>	<p><b>Environmental Protection</b> Basic ruggedizing</p>
	<p><b>Output Ripple / Noise</b> Better than 30mV<sub>rms</sub> or 100mV<sub>pp</sub> (20MHz BW)</p>		<p><b>Dimensions</b> 8.2" x 2.2" x 10"</p>
			<p><b>Weight</b> 2.73 Kg (approx. 6 lbs.)</p>
			<p><b>Connections</b> Phoenix series MKDS 5/3-9.5 terminals for input and ¼" – 20NB copper studs for output</p>

Warranty: Twelve months subject to application within good engineering practice.  
Enhancements to these general specifications and customizing can be accommodated upon request  
Designed to meet all 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 BABT-approved Facility**

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