

1500W Rugged, Fan-cooled Industrial Power Supply PFL 1500F Series

- Field-proven rugged design
- Industrial and other harsh-environment applications
- Built-in fans
- Single phase, PFC input
- Full electronic protection
- Competitive price



The PFL 1500F Series AC/DC power supply is a low-profile version of the well known PFC 1500 in 5" x 5" x 12" chassis. This mature design has a track record in hundreds of applications. It includes the same two internal modules; the PFS 1000 input stage and a KFB 1500 type output stage. The PFL 1500F is cooled by two internal fans and is rated for operation over a -20°C to 50°C temperature range without de-rating. An optional built-in redundancy diode allows for the outputs to be connected in parallel for 1+1 redundancy, or increased power. Additional ruggedizing and conformal coating are available for operation in extreme environments. The unit features full electronic protection and low output noise. 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.

SPECIFICATIONS

<p>Input Voltage 95 ... 264Vac ±15%; 47-63Hz</p> <p>Power Factor Min. 0.97 at full load for the entire input range. Meets EN61000-3-2</p> <p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN 60950 and corresponding CSA and UL standards</p> <p>EMI Meets EN 55022 Class A as a minimum</p> <p>Switching Frequency Input section: 100kHz +/- 7KHz Output section: 55 KHz +/-3KHz</p>	<p>Hold Up Time Minimum 10ms at full load for 5% drop of output voltage at nominal input</p> <p>Output Voltage/Current 24V/62A; 28V/54A; 48V/31A; 54V/27.7A and 125V/12A are standard. Consult factory for other voltages</p> <p>Redundancy Diode Optional</p> <p>Line/Load Regulation +/-1% combined</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)</p> <p>Overload Protection Rectangular current limiting with short circuit protection (no hiccup) Thermal shutdown with automatic reset in case of insufficient cooling</p>	<p>Output Overvoltage Protection Double regulator loop</p> <p>Efficiency Min 80% at full load</p> <p>Operating Temperature -20° C to +50° C for full specification without derating.</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling By internal fans</p> <p>Environmental Protection Basic ruggedizing Heavy ruggedizing and conformal coating as option</p> <p>MTBF Min. 130,000 hours @45° C Demonstrated MTBF is significantly higher. Fans excluded</p>	<p>Indicators None</p> <p>Control Input None</p> <p>Alarm Outputs None Available as option</p> <p>Dimensions (W x H x L) F20: 279 x 64 x 292 mm (11" x 2.5" x 11.5") including terminals and mounting flanges Mounting holes are clear</p> <p>Weight: 5.5 Kg (12 lb)</p> <p>Connections Input: barrier-type terminal block Output: copper blocks with ¼" screws</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty: Two years subject to application within good engineering practice</p>
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Enhancements to these general specifications and customizing can be accommodated upon request. 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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