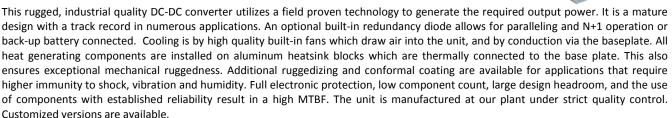
700 - 1000W, Rugged, Industrial Quality DC-DC Converter with Fan Cooling BAP 319F-F4W Series

- Rugged industrial quality
- Field-proven design
- · Regulated and adjustable output
- Full electronic protection
- N+1 redundancy as option



SPECIFICATIONS

Input Voltage

24V, 48V, 72V, 110V or 125Vdc For 24V input the output is limited to 550W output due to the max. 30A allowable input current

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified
minimum input will not damage

Input Isolation

the unit.

Corresponding to input/output configuration

Standards

Designed to meet EN60950-1 and corresponding standards

EMI

Meets EN 55032 Class A with margins

Switching Frequency

55kHz ±3kHz

Output Voltage/Current

Any single DC output from 12V to 125Vdc 12V/50A (600W output only)

Redundancy diode

None

Available as option

Line/Load Regulation

± 1% combined from zero load to full load for the non-redundant version

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)

Overload Protection

Current limiting with hiccup type short circuit protection Thermal shut-down with automatic recovery in case of insufficient cooling

Output Overvoltage Protection

Second regulator loop completely stable and independent of main regulator loop

Efficiency

Output voltage dependent Typically 80% at full load

Operating Temperature

0°C to 50°C for full specification without derating Extended temperature ranges

Temperature Drift

0.03% per $^{\circ}$ C over operating temperature range

Cooling

Forced air by high quality built-in fans and conduction to customer heat sink or chassis Fans draw air into the unit

Environmental Protection

Basic ruggedizing Heavy ruggedizing and conformal coating available as an option

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

150,000 hours @ 45 °C (Fans excluded) Demonstrated MTBF is significantly higher

Indicators

Internal 'Output ON' LED visible through cooling slots

Control Input

None on standard version Available as option

Alarm Outputs

None on standard version Available as option

Package/Dimensions (W x H x L)

F4W: $156 \times 65 \times 356$ mm 6.2" $\times 2.5$ " $\times 14$ " including terminal block, flanges and fans. Mounting holes are clear

Weight

2.5 kg (5.5 lb)

Connections

12 pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin Out

DC OUTPUT							DC INPUT				
+	+	-	-	NOT USED		MSED TON	÷8	1	-	+	+
1	2	3	1	- 5	6	7	Ω	0	10	11	12

Please note that ABSOPULSE power supplies are designed and built to customer specifications. The specifications on this data sheet are generic and will vary depending on input/output configuration and other customer requirements. Generic specifications are subject to change

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



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