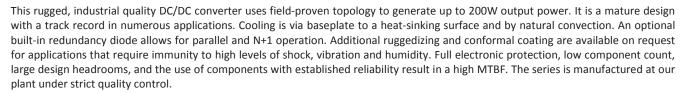
200W, Rugged, Industrial Quality DC/DC Converter BAP 200-FT Series

- Rugged industrial quality
- Field-proven design
- Regulated and adjustable output
- Conduction/convection cooling (no fans)
- Full electronic protection
- N+1 redundancy by built in diode as option



SPECIFICATIONS

Input Voltage

24Vdc (21-29V) 48Vdc (42-56V) 125Vd (105-145V) For 12Vdc and other input voltages, consult factory.

Input Protection

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

Isolation

According to input voltage minimum of: 1000VDC input to chassis, 1500VDC input to output, 500VDC output to chassis

Standards

Designed to meet EN60950 and corresponding standards

EMI

EN 55022 Class A with margins

Switching Frequency 55KHz +/- 3kHz

Output Voltages 12V/16A, 24V/8A, 48V/4A or

125V/1A Total output power 200W continuous Output is floating; either terminal

can be grounded
Consult factory for other voltages

Redundancy Diode

Installed on request

Line/Load Regulation

+/- 1% combined from zero load to full load including redundancy diode

Dynamic Response

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

Output Ripple / Noise

Better than 1% of output voltage peak to peak or 0.2% Vrms (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection (No hiccup) Thermal shutdown in case of insufficient cooling (self- resetting)

Output Overvoltage Protection

Double regulator loop completely stable and independent of main loop

Efficiency

80% - 87% at full load, depending on output voltage

Operating Temperature Range

0 to + 50°C for full specification (For extended temperature range see BAP 236 Series)

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction via base plate to customer heat sink or chassis and natural convection

Environmental Protection

Basic ruggedizing Heavy ruggedizing and conformal coating as option

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

150,000 hours at 45 $^{\circ}$ C Demonstrated MTBF is significantly higher.

Indicators

Green "Output ON" LED visible through the cooling slots

Control Input

None

Alarm Output

Output fail alarm Form C contacts installed on request

Package/Dimensions (W x H x L)

F2: 114 x 58 x 256 mm (4.5" x 2.3" x 10.1") including terminal block and flanges Mounting holes are clear

Weight

1.2 kg (2.6 lb)

Connections

9-pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

ALARM (OPTION)			DC OUTPUT			DC INPUT		
FAIL OPEN	COM	FAIL CLOSED	ı	+	NOT USED	GŅD	_	+
1	2	3	4	5	6	7	8	9

