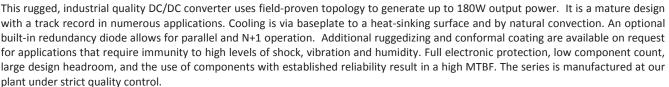
180W, Rugged, Industrial Quality DC/DC Converter BAP 180-FT Series

- 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



ate up to 180W output power. It is a mature design king surface and by natural convection. An optional

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 input voltages than specified minimum 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

ЕМІ

EN55022 Class A with margins

Switching Frequency 80KHz +/- 5kHz

Output Voltage/Current 12V/15A, 24V/7A, 48V/3A or

125V/1A
Total output power 180W
continuous
Output is floating; either terminal

can be grounded
Consult factory for other voltages

Redundancy Diode

Installed on request

Line/Load Regulation

 $\pm\,1\%$ combined from no 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 with automatic reset in case of insufficient cooling

Output Overvoltage Protection

Double regulator loop. Second loop completely stable and independent of main regulator loop

Efficiency

Typically 85% at full load depending on input/output combination

Operating Temperature Range

0 °C to 50°C for full specification Extended temperature ranges available

Temperature Drift

0.03% per $\,^{\circ}\text{C}\text{,}$ 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 °C Demonstrated MTBF is significantly higher

Indicators

Green output ON LED visible through cooling slots

Control Input

None

Alarm Output

None Output Fail Form C contacts installed on request

Package/Dimensions (W x H x L)

F1: 114 x 51x 201 mm (4.5" x 2" x 7.9") including terminal block and flanges. Mounting holes are clear

Weight

0.8 kg (1.8 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	сом	FAIL	1	+	NOT USED	GŅD	-	+
1	2	3	4	5	6	7	8	٩

