# **BAP1K SERIES**

DC/ DC Converter: 1000 Watts





#### **Features**

- 24- 160vdc Input options
- ♦ 1000 watts output power
- Over voltage protection
- Overload and short circuit protection
- MTBF > 130,000hrs
- Any output from 24vdc ~ 130vdc possible
- N+1 Redundancy Applications option
- Output DC Fail alarm -Option
- Battery Charging applications Option

## **General Specifications**

Input Voltage 24VDC (21-30)

48VDC (42-60) 120VDC (95-140)

Other voltage input options on request

Input Protection Reverse polarity protection.

Inrush current limiting

Input Fuse

Isolation Input - Output 2250vdc

Input - Chassis 1500vdc Output - Chassis 500vdc

Efficiency Model dependent, typically 80%

Output voltage See tables

Output Power 1000 watts

Parallel Operation Optional

Voltage Typically 5% (Other options on request)

adjustment

Output Better than 1% of output voltage Ripple/Noise peak to peak or 0.2% rms of the output voltage (20MHZ BW)

Line / Load ± 1% combined

Regulation

Dynamic Load Max 5% voltage deviation for 10% to Response 50% load step, with better than

50% load step, with better than 1msec recovery time.

Output Protection Over voltage protection

Constant Current limiting & short circuit

protection

Thermal shutdown with auto recovery.

EMI EN55022 class A

Immunity EN61000-4

Shock & Vibration Designed to meet IEC61373 Cat 1 A & B

Operating Temp. 0°C to +50°C at full load.

+70°C at 50% load.

Cooling By built-in fan

Dimensions 127 x 127 x 314mm 5.5kg

#### Description

The BAP1K Series DC/DC converter, is part of a family of industrial dc/dc converters, providing 1000 watts of output power.

It is a mature design with a proven track record in many applications. The unit is equipped with reverse polarity protection on the input, surge protection and input & output filtering.

Cooling is by built-in fan and optional ruggedizing & conformal coating is available, for immunity to shock, vibration, humidity, moisture, dust and insects.

An optional redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy. This chassis-mount design is optimized for low component count and high efficiency.

### **Options**

Output Voltage Special voltage output, up to 130VDC

Alarm Voltage Free contacts

N+1 Redundancy Output redundancy diode for parallel operation

Model	Input V	Out V	tput A	Power W
BAP1K-24-12UT	24V	12V	80A	
BAP1K-24-24UT	24V	24V	40A	
BAP1K-24-48UT	24V	48V	20A	
BAP1K-24-120UT	24V	120V	8.3A	1000W
BAP1K-48-12UT	48V	12V	80A	
BAP1K-48-24UT	48V	24V	40A	
BAP1K-48-48UT	48V	48V	20A	
BAP1K-48-120UT	48V	120V	8.3A	
BAP1K-120-24UT	120V	24V	40A	
BAP1K-120-48UT	120V	48V	20A	

## Note:

- 1. Any input / output voltage is available 24-130vdc
- 2. Final part no will be allocated at time of order

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