

BAP2K5 - SERIES

DC/ DC Converter: 2500 Watts



3UH



3UI

Features

- High quality for industrial applications
- Up to 2500 watts output power
- Over voltage protection
- Overload and short circuit protection
- MTBF > 130,000hrs
- Specials output voltage options
- Any output from 24vdc ~ 125vdc 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) 110VDC (90 ~ 140) 125VDC (105 ~145) Other voltages on request
Input Protection	Reverse polarity protection. Inrush current limiting Thermal Fuse
Isolation	Input - Output 1500vdc Input – Output 2500vdc (110v input) Input – Chassis 1500vdc Output – Chassis 500vdc
Efficiency	Model dependent , typically 80%
Output voltage	See tables
Output Power	2500 watts maximum
Parallel Operation	Optional
Voltage adjustment	Customer specified, typically 5%
Line / Load Regulation	Output voltage dependant Typically: ±1%
Output Protection	<ul style="list-style-type: none"> • Over voltage protection • Constant Current limiting & short circuit protection
Output Ripple / Noise	<1% of Vout pk-pk or 0.2%rms (20MHZ BW)
Temp Drift	0.03% per °C over temperature range.
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	Fan cooled
Dimensions (H*W*L)	Depending on input/output voltage combination. 3U3: 132 x 187 x 407mm 6kg 3U4: 132 x 244 x 407mm 8kg

Description

The **BAP2K5** Series DC/DC converter is a mature design product, with a proven track record in many applications over two decades and designed for a wide range of industrial applications.

The unit is equipped with reverse polarity protection on the input, surge protection and input & output filtering.

Optional ruggedizing & conformal coating is available, for immunity to shock, vibration, humidity, moisture, dust and insects.

In addition, a range of options are available, allowing customer's total flexibility to specify a unit that is specific to their application.

Options

Output Voltage	Special voltage output, up to 125VDC
Alarm	Voltage Free contacts
N+1 Redundancy	Output redundancy diode for parallel operation
Rack mount	Various 19in Rack mount options

Part No Configuration:

BAP2K5 – xx3U3/3U4-xx

- Final part no is factory assigned, depending in input & output voltage and any special features.
- Voltages below are only to illustrate standard input/output voltages.

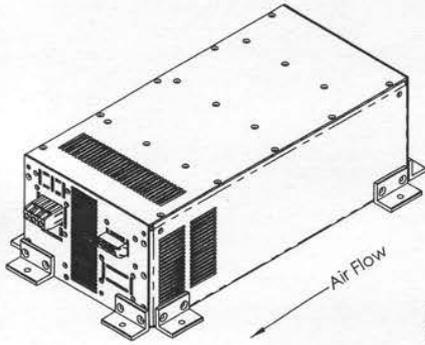
Series / Power	Input V	Output V / A	Options
BAP2K5 (2500 watts)	24	24V 104A	Factory Assigned No.
	48	36V 69A	
	72	48V 52A	
	110	72V 34A	
	125	125V 20A	

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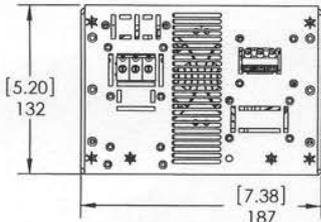
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Mounting brackets can be installed along short or long sides - 4 mounting brackets with fasteners are provided with the unit

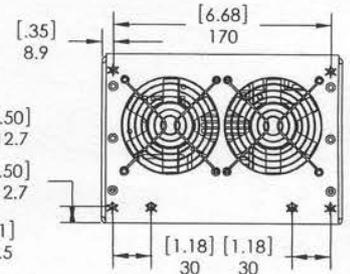
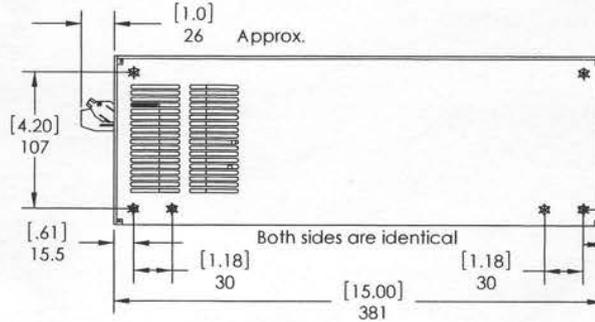
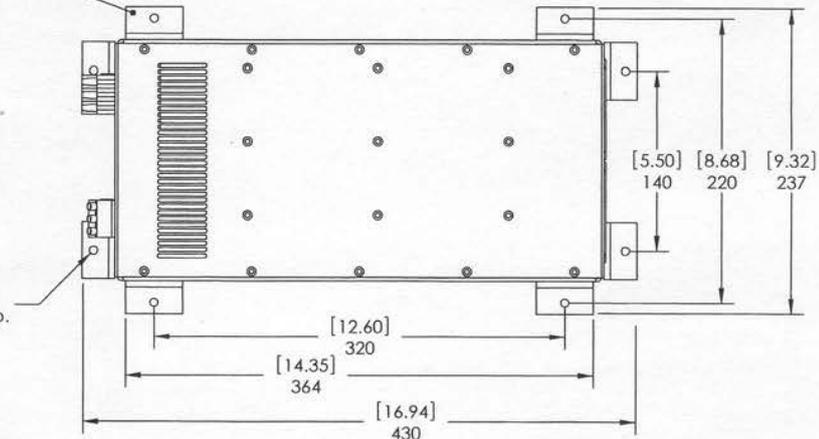


Air Flow

Input / Output termination may vary, it depends on application

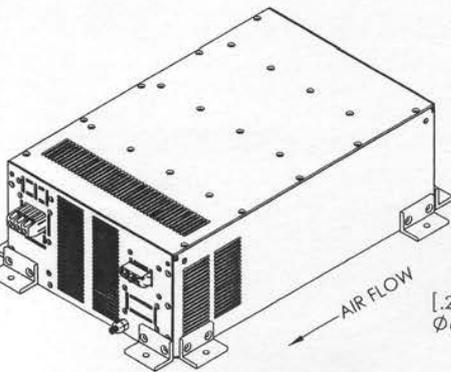


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Ø6.4 typ.



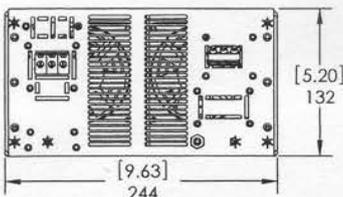
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AIR FLOW

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Ø6.4 TYP.

