

BAP1K5 - SERIES

DC/ DC Converter: 1500 Watts



UT
chassis



3U3
chassis

General Specifications

Input Voltage	24VDC (21 ~ 30) 48VDC (42 ~ 60) 120VDC (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	Any voltage form 12 ~ 125V
Output Power	< 72V outputs = 1440 watts > 72V = 1500 watts Depending on input V / output V combination
Parallel Operation	Optional
Voltage adjustment	Customer specified, typically 5%
Regulation	Output voltage dependant Typically: ±3-5%
Output Protection	Over voltage protection Constant Current limiting & short circuit protection
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	BAP1K5 varies UT size: 132 x 132 x 316mm 3U3 size: 187 x 132 x 410mm

Features

- High quality for industrial applications
- Up to 1500 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

Description

The **BAP1K5** 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:

BAP1K5-48/48-UT - (48 / 48V 1440W)

BAP1K5-120/24-UT - (120 / 24V 1500W)

Series / Power	Input V	Output V	Package	Options
BAP1K5 -	24	12	UT / 3U3	Factory Assigned No.
	48	24		
	72	28		
	120	30		
		48		
		60		
		110		
		120		
		125		

1. Input & Output voltage is customer specified (and factory set), together with any special options / features.
2. Output power in UT size will vary depending on input / output voltage required
3. Output power in 3U3 size 1500W (no limitations)