BAP2K5 - SERIES
DC/ DC Converter: 2500 Watts

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
- 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
Depending on input/output voltage combination.
3U3: 132 x 187 x 407mm 6kg
3U4: 132 x 244 x 407mm 8kg

Features
- High quality for industrial applications
- Up to 2500 watts output power
- Over voltage protection
- Overload and short circuit protection
- MTBF > 130,000hrs
- Special 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 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.

<table>
<thead>
<tr>
<th>Series / Power</th>
<th>Input V</th>
<th>Output V / A</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAP2K5 (2500 watts)</td>
<td>24VDC</td>
<td>24V</td>
<td>104A</td>
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<tr>
<td></td>
<td>36V</td>
<td>69A</td>
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<td>48V</td>
<td>52A</td>
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<td>72V</td>
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