

BAP5500 5500 WATT DC-DC CONVERTER 3U x 19" 16" 24-400VDC IN 12-800VDC OUT

- Easy customizing, short delivery
- Single or multiple output
- Up to 5,500W output power
- Full electronic protection
- Telecom quality
- Field-proven design
- N+1 redundancy available



The BAP5500 Series of DC/DC converters was specifically designed to enable any input/output voltage combination up to a maximum of 5,500W. Higher output power can be achieved by connecting shelves in parallel. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C. The BAP5500 features full electronic protection, high efficiency and low output noise. The use of high quality components and rigorous quality control results in very high reliability.

The modular design of the BAP5500 provides a cost-efficient solution, at any quantity, for a wide range of applications, and allows for short lead times, even for highly-custom projects. The fully-loaded shelves can hold up to seven BAP750 modules, and each of them can be separated by a redundancy diode. The failure of one module, which would be signaled by a built-in alarm, would only cause a 1/7 loss of power from the fully assembled shelf. Multiple-output versions can be easily achieved.

SPECIFICATIONS

Input Voltage

Any DC input from 24V to 400VDC with 24V,48V,125V, 250V and 360VDC ± 15% standard. Consult factory for other inputs.

Input Protection

Thermal Fuse
Inrush current limiting

Isolation

1000VDC input to chassis
1000VDC input to output
500VDC output to chassis

Full compliance to IEC950, CSA 22-2-950 and UL 1950

Output Voltages

Virtually any DC output from 12V to 800VDC

Line/Load Regulation

± 1% to ± 2% combined depending on output voltage

Output Overvoltage Protection

Double regulator loop

Overload Protection

Current limiting with short circuit protection
Self-resetting thermostat for thermal protection

Efficiency

75 - 94% depending on Input/Output combination

EMI Suppression

Meets EN 55022 Class A emissions as a minimum

Output Ripple/Noise

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20HZ BW)

Operating Temperature

0 to +50°C. Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Alarm Output:

Module fail alarm option

Package Size

3Ux19" rack-mount frame
16" deep

Connections:

Screw type terminal blocks.
Other connectors according to customer requirements.

Warranty: Twelve months subject to application within good engineering practice.
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications subject to change.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard.

Absopulse is a BABT-approved Facility

