

BAP 600 -1500 SERIES

DC/DC Single Output: 600 - 1500 Watts



Features

- Any input voltage from 24-140V is possible.
- High density/compact package.
- Any output voltage from 12V-120V is possible.
- Suitable for battery charging applications.
- N+1 redundancy option.
- · Alarm option, optocoupler or relay.
- Full electronic protection & field proven design topology.
- Quality components, high MTBF >100,000 hrs.
- Thermal shutdown.
- Meets international safety and EMC standards.

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MODEL	Ou V	itput A	Power W	Package
BAP600 - 12	12V	50A	600W	
BAP600 - 24	24V	25A	600W	4.5 x 5 x 10"
BAP600 - 48	48V	13A	600W	
BAP600 - 120	120V	5A	600W	
BAP800 - 12	12V	66A	800W	
BAP800 - 24	24V	33A	800W	5 x 5 x 12"
BAP800 - 48	48V	16A	800W	
BAP800 - 120	120V	6.6A	800W	
BAP1000 - 12	12V	83A	1000W	
BAP1000 - 24	24V	42A	1000W	5 x 5 x 12"
BAP1000 - 48	48V	21A	1000W	
BAP1000 - 120	120V	8.3A	1000W	
BAP1500 - 12	12V	120A	1500W	5×5×12"
BAP1500 - 24	24V	60A	1500W	
BAP1500 - 48	48V	30A	1500W	
BAP1500 - 120	120V	12A	1500W	

Notes:

- Above voltages are standard, but any voltage 12 120V is possible.
- Final Part No will be factory allocated to reflect input/output voltage settings.
- A number of units of the same power can be connected in parallel for increased power.

Specifications

INPUT VOLTAGE: 24VDC (21-30), 48VDC (42-60)

72VDC (60-85), 110VDC (90-140)

Other options on request

INPUT PROTECTION: Reverse polarity protection.

Low input voltage shutdown.

Thermal fuse

ISOLATION: Input-output/chassis: 1500VDC

Output-chassis: 500VDC

(2250V optional)

SAFETY: Designed to meet IEC950, UL1950,

AS3260

EFFICIENCY: Model dependent typically 85%

OUTPUT VOLTAGE: Any combination 12V to 120VDC.

V out is customer specified and factory set

OUTPUT POWER: 700~1500W: refer to table

VOLTAGE ADJUSTMENT: $\pm 5.0\%$, other options on request

PARALLEL OPERATION: Yes. A number of units of same model can

be connected in parallel for increased

power or n+1 redundancy

LINE REGULATION ±1.0% over input range

LOAD REGULATION: $\pm 1.0\%$ from no load to full load, excluding

redundancy diode

OUTPUT PROTECTION: • Overvoltage protection

Rectangular current limitShort circuit protection

• Thermal protection in case of reduced

air flow

EMI: Meets requirements of EN55022 Class B

conducted.

RIPPLE & NOISE: Output ripple and noise 1% max. of V out

pk-pk or 0.2%rms (20Hz BW)

OPERATING TEMP: 0° to 50°C at full load.

Derating required from 50°-70°C.

Consult office

HUMIDITY: 5-95% non condensing.

Conformal coating optional

COOLING: Fan forced cooled

HOLD-UP TIME: Typically 4ms at nominal input

TERMINALS: Screw terminals

ALARM (Option "A"): Converter output fail: voltage free relay

change over contacts.
Other options on request.

REDUNDANCY (Option "R"): Redundancy diode option for n+1

MECHANICAL: 4.5 x 5 x 12in. (115 x 127 x 254mm)

5 x 5 x 12in. (127 x 127 x 305mm)