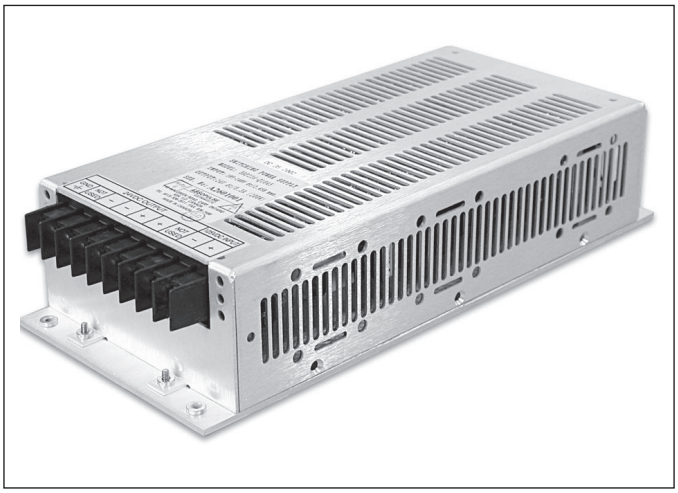
BAP-RAIL SERIES

DC/DC Single Output: 200~500 Watts



Features

- Wide range of input/output voltage combinations
- Meets Rail standards EN50155 and EN50121
- Fully isolated to 3000VDC
- Immunity to EN50121
- **N+1** redundancy - **option**
- Ruggedised for on-board train application
- MTBF>200,000 hours
- Customised to your specifications

MODEL	Output V	Output A	Power W
BAP236 - 12	12V	16.5A	200W
BAP236 - 15	15V	13.2A	200W
BAP236 - 24	24V	8.2A	200W
BAP236 - 48	48V	4.1A	200W
BAP236 - 72	72V	2.7A	200W
BAP236 - 120	120V	1.6A	200W
BAP65 - 12	12V	25A	300W
BAP65 - 15	15V	20A	300W
BAP65 - 24	24V	12.5A	300W
BAP65 - 48	48V	6.2A	300W
BAP65 - 72	72V	4.1A	300W
BAP65 - 120	120V	2.5A	300W
BAP319 - 12	12V	40A	480W
BAP319 - 15	15V	33A	500W
BAP319 - 24	24V	20A	500W
BAP319 - 48	48V	10A	500W
BAP319 - 72	72V	6.9A	500W
BAP319 - 120	120V	4.1A	500W

- Any voltage from 12V - 120V is possible.
- Output voltage is customer specified and factory set.
- Final Part Number will factory allocated at the time of order, to reflect input/output combinations and any options

Specifications

INPUT VOLTAGE:
24VDC: (17~30)
72VDC: (50~90)
110VDC: (77~137)

INPUT VOLTAGE: (with transients)
24VDC: (14~36) 1 second
72VDC: (43~101) 1 second
110VDC: (66~154) 1 second

INPUT PROTECTION: Reverse polarity protection
Low input volatge shutdown
Thermal fuse

ISOLATION: Input - output 3000 VDC
Input - chassis 1500 VDC
Output - chassis 1500 VDC

EFFICIENCY: Model dependent typically 85%

OUTPUT VOLTAGE: Customer specified 12 to 120 VDC

OUTPUT POWER: 200 - 500 watts, refer to table

VOLTAGE ADJUSTMENT: ±5.0%

PARALLEL OPERATION: (optional) Yes. A number of units can be connected in parallel for increased power or n+1 redundancy. Please consult our office.

LINE REGULATION: ±1% over input range

LOAD REGULATION: ±2% from no load to full load

OUTPUT PROTECTION:
- Over voltage protection
- Rectangular current limit
- Short circuit protection
- Thermal protection

EMI: EN50121-3-2

IMMUNITY/EMC: EN50155 & EN50121-3-2
EN61000 -4 -2 Criterion A
EN61000 -4 -3 Criterion A
EN61000 -4 -4 Criterion A
EN61000 -4 -6 Criterion A

OUTPUT RIPPLE & NOISE: 1% pk-pk maximum of output voltage setting

OPERATING TEMP: 0°C to +50°C at full load.
Derate 2.5% per °C from 50°-70°C

HUMIDITY: 10% to 95% non-condensing (conformal coating optional)

COOLING: Conduction cooled or convection cooled

OUTPUT ALARM: Voltage free relay contacts - optional

TERMINALS: Screw-type terminal block (other options on request)

DIMENSIONS & WEIGHT: (includes flanges)
BAP236: F2 case 254 x 114 x 58mm 2kg
BAP65: F3 case 290 x 132 x 58mm 2.5kg
BAP319: F4 case 351 x 133 x 67mm 3kg

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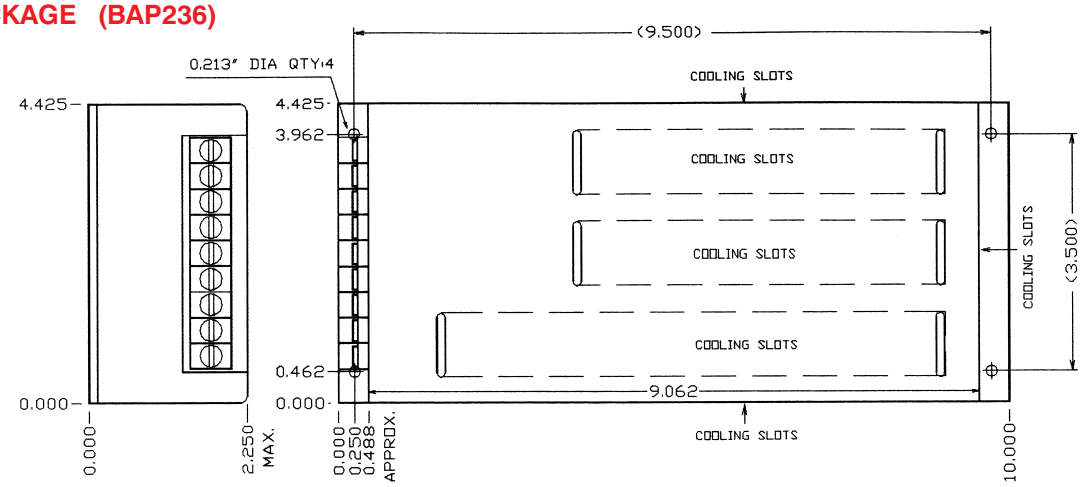
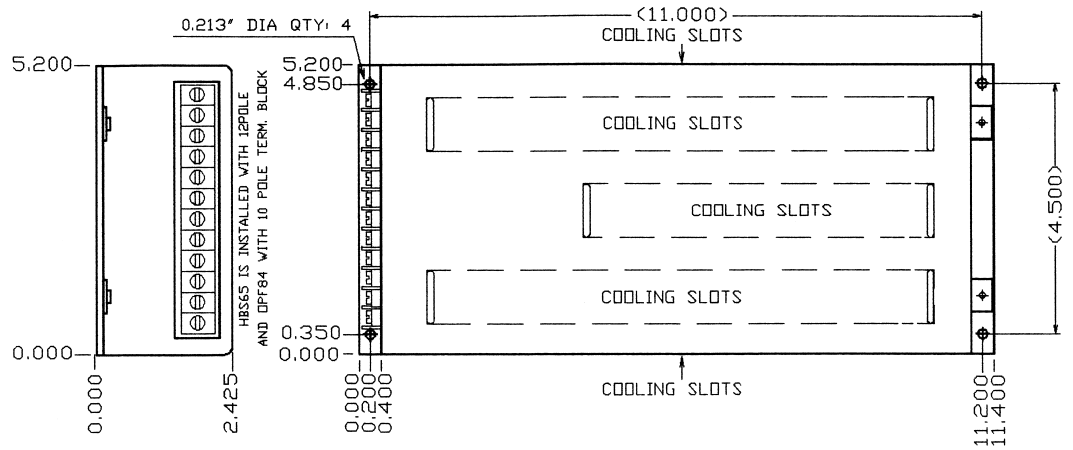
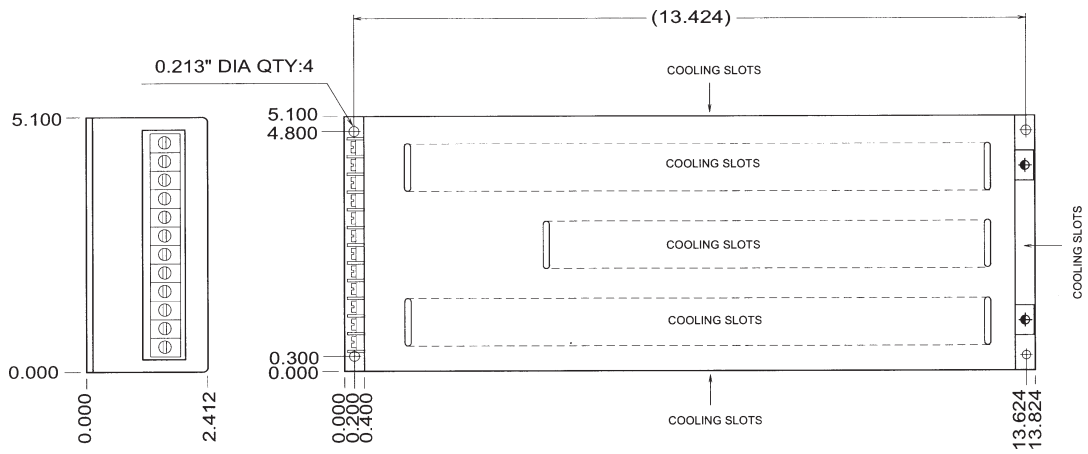
F2 PACKAGE (BAP236)



F3 PACKAGE (BAP65)



F4 PACKAGE (BAP319)



• All dimensions in inches