

FEATURES

BPC1700 Chassis

- Input Active Power Factor Correction
- Wide Range Input
- Custom modifications available
- Redundant operation
- Single wire current sharing
- Diode isolation
- Available in Single or Three Phase Inputs
- CE compliant
- UL, CUL, and DEMKO Approvals
- I²C interface (Optional)
- Inhibit
- Power Okay
- PS On



SPECIFICATION

| Model | | BPC1500 Chassis |
|-----------------------------|--|---|
| Output | DC Output | Maximum continuous output power 1700 Watts with self-contained fan cooling |
| | Line Regulation | ± 0.05% |
| | Load Regulation | ± 1% |
| | Ripple and Noise | 1% Pk to Pk |
| | Transient Response | 2% Maximum deviation; returns to initial condition in 1 msec max. |
| | Long Term Stability | 0.01% after 20 minute warm-up |
| | Hold-Up Time | 20msec minimum |
| | OVP | 115% to 135% on VO1 output only. |
| | Short-circuit Protection | Constant current with delayed latching method on VO1 output. The 5VSB utilizes the hiccup method. |
| | Overload Protection | Constant current with delayed latching method on VO1 output. The 5VSB utilizes the hiccup method. The constant current method allows for a 5-second delay before the power supply shuts down if the output current rating exceeds 110% to 130% of maximum rated output current. The AC must be recycled or the PS ON reset to restart the unit. |
| | Diode Isolation | Internal FET isolation provided for N+1 redundant operation. |
| | Current Sharing | Output will current share within 5% when interconnected by a single wire. |
| | PS ON | The secondary outputs are enabled only upon mating pin P2-12 to output common on the customer's backplane. |
| | Over Temperature Protection | The power supply will shut down if temperature is greater than 100°C internal temperature. The power supply is self-recovering once the internal temperature falls below 60°C. |
| | Power Okay | A TTL high logic signal is provided on pin P2-4 when the input and output voltages are within normal operating conditions. |
| Inhibit | A TTL low logic signal sent to pin P2-9 inhibits all outputs except the 5VSB. Upon release of the signal, outputs are restored | |
| I ² C (Optional) | Monitors: Power Good, Voltage, Current, Temperature, and Fan | |
| Input | Input Range | 90-264 VAC |
| | Frequency Range | 47-440 Hz |
| | EMI filter | EN55022 Class B, FCC Part 15 |
| | Inrush Current | <32A @ 230 VAC |
| | Input Current (1500) | 20.0A-7.0A |
| | Input Current (750W) | 10.4A-3.7A |
| | Isolation (Input to Output) | 4242 VDC (Input to Output) |
| | Efficiency | 85% @ 120 VAC |
| | Active PFC | 0.99 |
| | Switching Frequency | 134KHz |
| Leakage | < 3.5mA | |
| Environmental | Humidity | Up to 95% non-condensing |
| | Storage Temperature | -20° to +85°C |
| | Temperature coefficient | ± 0.01% / °C |
| | Ambient Operating Temperature | 0 to +50°C continuous duty, full rating. Derates linearly to 70% of full rating at +71°C |
| | Cooling | Self-contained fan cooling |
| Safety | UL / CUL / DEMKO | 606950 / 60950 / EN60950 |
| Others | Connector Input | Terminal Blocks |
| | Connector DC output | Bus Bars |
| | Output Connector | Molex 39-31-0120 |
| | Dimension (L*W*H) | 11.41" L x 4.0" W x 4.4" H (290mm x 101mm x 110.1mm) |



VOLTAGE/CURRENT RATING CHART (750)

| Part Number | Assignment | Voltage | Minimum | Maximum |
|----------------------|------------|---------|---------|---------|
| BPC1500-120-1 | VO1 | 12V | 0A | 62.5A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1500-280-1 | VO1 | +28V | 0A | 26.8A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1500-480-1 | VO1 | +48V | 0A | 15.6A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1500-580-1 | VO1 | +58V | 0A | 12.9A |
| | 5VSB | +5V | 0A | 2.0A |

VOLTAGE/CURRENT RATING CHART (1700)

| Part Number | Assignment | Voltage | Minimum | Maximum |
|----------------------|------------|---------|---------|---------|
| BPC1700-120-2 | VO1 | 12V | 0A | 125.0A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1700-280-2 | VO1 | +28V | 0A | 53.6A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1700-480-2 | VO1 | +48V | 0A | 31.3A |
| | 5VSB | +5V | 0A | 2.0A |
| BPC1700-580-2 | VO1 | +58V | 0A | 25.9A |
| | 5VSB | +5V | 0A | 2.0A |

| | |
|-----------------------|--------------------------------|
| Total Power | 850W(1 unit) – 1700W (2 units) |
| Input Voltages | 90-264 VAC |
| Outputs | Single plus 5VSB |

Notes:

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: 3 lbs



Autec Power Systems, Inc.

IN/OUTPUT RATING & PIN ASSIGNMENT

| | |
|------------------|--------------------------|
| SIZE : A4 | FM-4000-34/REV.A-080502' |
| UNIT :mm[inches] | FILENAME: PPSC0454 |
| REV. NO.: A | DATE : 08. 22. 2006 |
| DRAWN: ? ? ? | CHECKED: |
| H. L. LIN | |

MODEL NO. : BPC1500 Chassis

INPUTS :

| ASSIGNMENT | A.C. VOLTAGE | CURRENT | PIN NBR |
|------------|--------------|---------|---------|
| L: | 100-240V~ | | P1-3 |
| N: | | | P1-2 |
| GND: | | 50-60Hz | P1-1 |

OUTPUTS :

| ASSIGNMENT | D.C. VOLTAGE | CURRENT | PIN NBR |
|------------|--------------|---------|---------|
| Vout(+): | | | Bus bar |
| Vout(-): | | | Bus bar |
| SDA: | | | P2-1 |
| 5VSB: | | | P2-2,3 |
| P.OK: | | | P2-4 |
| SDL: | | | P2-5 |
| COM: | | | P2-6 |
| -VO1S: | | | P2-7 |
| +VO1S: | | | P2-8 |
| INH: | | | P2-9 |
| VO1CS: | | | P2-10 |
| TEMP: | | | P2-11 |
| PS_ON: | | | P2-12 |

MAXIMUM OUTPUT POWER: 1500W

P2:Molex 39-31-0120

P1:DINKLE
DT-7N-B01W-03

