INPUT:
90-264 VAC, 47-440 HZ SINGLE PHASE, CONTINUOUS RANGE

POWER FACTOR:
EXCEEDS .99, MEETS IEC555-2

CONDUCTED EMI:
DESIGNED TO MEET FCC PART 15 SUB B LEV A, EN55022
LEV B FVG243, MIL-STD 461 CE01 AND CE03

BATTERY BACKUP:
OPTIONAL PLUG IN BOARD ALLOWS OPERATION FROM A
24VDC BATTERY. TRANSITION TO BACK-UP POWER IS
AUTOMATIC UPON FAILURE OF PRIME POWER. UNIT CAN
ALSO OPERATE AS A DC/DC POWER SUPPLY FROM A
26VDC SOURCE.

QUALITY STANDARDS:
ISO9001, MIL-I-45208

SAFETY AGENCIES:
DESIGNED TO MEET UL1950, CSA22.2, IEC950, EN60950,
VDE0806

EFFICIENCY:
75% TYPICAL

OUTPUTS: (SEE TABLE 1)
TOTAL OUTPUT POWER LIMITED TO 350 WATTS. OUTPUTS
2, 3, AND 4 ARE FLOATING, AND CAN BE CONNECTED FOR
POSITIVE OR NEGATIVE OPERATION

LOAD REGULATION:
.5% FOR ALL OUTPUTS

LINE REGULATION:
.5% FOR ALL OUTPUTS

rippLe AND NOiSE:
1% OF OUTPUT VOLTAGE (TYPICAL)

HOLD-UP TIME:
20MSEC MINIMUM AT FULL LOAD WITH AC INPUT
10MSEC MINIMUM AT FULL LOAD WITH 28VDC INPUT

MINIMUM LOAD:
NONE REQUIRED

OUTPUT VOLTAGE ADJUSTMENT:
ALL OUTPUTS ADJUSTABLE +/- 5%

REMOTE SENSE:
WILL COMPENSATE .5V DROP ON OUTPUT #1

TRANSIENT RESPONSE:
RECOVERY TO 1% OF NOM. WITHIN 200uSEC FOR 50%
LOAD STEP

BCPS-300 POWER SUPPLY

REDUNDANCY N+1:
EACH OUTPUT CAN BE PARALLELED WITH OTHER
OUTPUTS OF SAME VOLTAGE. OUTPUT #1 CURRENT
SHARES TO +/- 10%

REMOTE ON/OFF:
GROUNDING THIS INPUT TURNS UNIT OFF. LEAVING PIN
OPEN TURNS UNIT ON

OVERLOAD PROTECTION:
EACH OUTPUT IS CURRENT LIMITED AND SHORT CIRCUIT
PROTECTED

OVERVOLTAGE PROTECTION:
LIMITED TO 130% OF OUTPUT VOLTAGE ON EACH
OUTPUT

AC LOW:
TTL LOGIC 1 WHEN AC VOLTAGE DROPS BELOW 95VAC,
OCCURS 5MS BEFORE LOSS OF OUTPUTS

5V GOOD:
TTL LOGIC 0 WHEN 5V OUTPUT IS ABOVE 4.75VDC,
30MSEC DELAY AT POWER UP FOR POWER ON RESET
IMPLEMENTATIONS

TEMPERATURE RANGE:
-20 TO 50 DEG C WITH 30 CFM OF AIRFLOW. OPTIONAL
COVER WITH FAN

THERMAL PROTECTION:
SHUTDOWN WITH AUTO RECOVERY

DIM./MOUNTING:
5” x 6” x 2” (SEE FIG. 1)
### TABLE 1 OUTPUT CONFIGURATION

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>OUTPUT #1</th>
<th>OUTPUT #2</th>
<th>OUTPUT #3</th>
<th>OUTPUT #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCPS300-1</td>
<td>5V @ 50A</td>
<td>12V @ 8/12*A</td>
<td>12V @ 4A</td>
<td>5V @ 4A</td>
</tr>
<tr>
<td>BCPS300-2</td>
<td>5V @ 50A</td>
<td>12V @ 8/12*A</td>
<td>12V @ 4A</td>
<td>12V @ 4A</td>
</tr>
<tr>
<td>BCPS300-3</td>
<td>5V @ 50A</td>
<td>12V @ 8/12*A</td>
<td>24V @ 4A</td>
<td>5V @ 4A</td>
</tr>
<tr>
<td>BCPS300-4</td>
<td>5V @ 50A</td>
<td>12V @ 8/12*A</td>
<td>15V @ 4A</td>
<td>15V @ 4A</td>
</tr>
<tr>
<td>BCPS300-5</td>
<td>5V @ 50A</td>
<td>12V @ 8/12*A</td>
<td>3.3V @ 4A</td>
<td>12V @ 4A</td>
</tr>
<tr>
<td>BCPS300-6</td>
<td>5V @ 50A</td>
<td>15V @ 8/12*A</td>
<td>12V @ 4A</td>
<td>15V @ 4A</td>
</tr>
<tr>
<td>BCPS300-7</td>
<td>5V @ 50A</td>
<td>3.3V @ 12A</td>
<td>12V @ 4A</td>
<td>5V @ 4A</td>
</tr>
<tr>
<td>BCPS300-8</td>
<td>5V @ 50A</td>
<td>3.3V @ 12A</td>
<td>12V @ 4A</td>
<td>12V @ 4A</td>
</tr>
<tr>
<td>BCPS300-9</td>
<td>5V @ 50A</td>
<td>3.3V @ 12A</td>
<td>24V @ 4A</td>
<td>12V @ 4A</td>
</tr>
<tr>
<td>BCPS300-10</td>
<td>5V @ 50A</td>
<td>3.3V @ 12A</td>
<td>24V @ 4A</td>
<td>5V @ 4A</td>
</tr>
</tbody>
</table>

* 8A CONTINUOUS, 12A SURGE FOR <15 SECONDS
OTHER CONFIGURATIONS AVAILABLE, CONSULT FACTORY

### CONNECTOR ASSIGNMENT TABLES

**NOTES:**
1. ALL EXTERIOR METAL SURFACES ARE ALUMINUM ALLOY 5052-H32.
2. FINISH CHEMICAL FILM PER MIL-C-5541
   TYPE I, COLOR GOLD.
3. THE LABEL SHOWN IS LOCATED APPROXIMATELY AS SHOWN.

**CONNECTOR** | **FUNCTION** | **REMARKS**
---|---|---
J1-1 | 115/230VAC | NEUTRAL
J1-2 | N/A | 
J1-3 | 115/230VAC | MNT
J1-4 | N/A | 
J1-5 | CHASSIS GND | MOLEX
J1-6 | CHASSIS GND | 09-50-0081

**CONNECTOR** | **FUNCTION** | **REMARKS**
---|---|---
J2-1 | SENSE - | 
J2-2 | 115V DC | MOLEX
J2-3 | SENSE | MNT
J2-4 | 12V DC | 22-01-2067
J2-5 | CHASSIS | 
J2-6 | 5V SHORE | 

**CONNECTOR** | **FUNCTION** | **REMARKS**
---|---|---
J3-1 | OUTPUT1 | MNT
J3-2 | 115V DC | MOLEX
J3-3 | OUTPUT2 | MNT
J3-4 | 12V DC | 02-50-0001
J3-5 | OUTPUT3 | MOLEX
J3-6 | OUTPUT4 | 
J3-7 | OUTPUT5 | 

**CONNECTOR** | **FUNCTION** | **REMARKS**
---|---|---
J4-1 | 5V RTN | BUS BAR
J4-2 | 5V | BUS BAR

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BC Power Systems' philosophy is to design and manufacture power supplies to the customer's requirements.

The skills of Design and Manufacturing are accomplished in a modern, well-equipped facility.