

BC SYSTEMS, INC.

200 Belle Meade Road • Setauket, New York 11733 (631)-751-9370 • Fax: (631)-751-9378 Email #bcpowersys@nais.com • www.bcpowersys.com

ELECTRICAL SPECIFICATIONS, BCPS-300 POWER SUPPLY

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 28VDC 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:

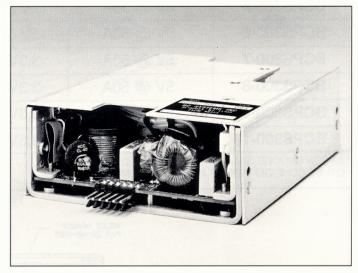
ALL OUTPUTS ADJUSTABLE +/- 5%

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

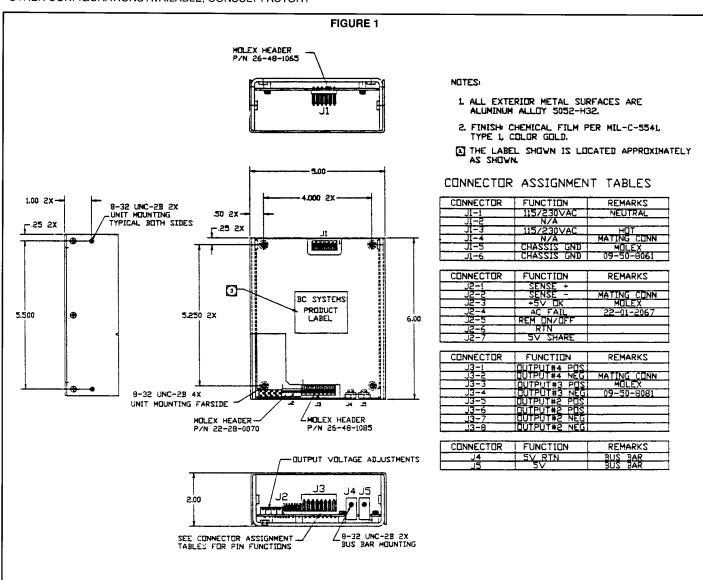
DIM./MOUNTING:

5" x 6" x 2" (SEE FIG. 1)

TABLE 1 OUTPUT CONFIGURATION

MODEL#	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
BCPS300-1	5V @ 50A	12V @ 8/12A*	12V @ 4A	5V @ 4A
BCPS300-2	5V @ 50A	12V @ 8/12A*	12V @ 4A	12V @ 4A
BCPS300-3	5V @ 50A	12V @ 8/12A*	24V @ 4A	5V @ 4A
BCPS300-4	5V @ 50A	12V @ 8/12A*	15V @ 4A	15V @ 4A
BCPS300-5	5V @ 50A	12V @ 8/12A*	3.3V @ 4A	12V @ 4A
BCPS300-6	5V @ 50A	15V @ 8/12A*	12V @ 4A	15V @ 4A
BCPS300-7	5V @ 50A	3.3V @ 12A	12V @ 4A	5V @ 4A
BCPS300-8	5V @ 50A	3.3V @ 12A	12V @ 4A	12V @ 4A
BCPS300-9	5V @ 50A	3.3V @ 12A	24V @ 4A	12V @ 4A
BCPS300-10	5V @ 50A	3.3V @ 12A	24V @ 4A	5V @ 4A

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





SERVING NATIONAL AND INTERNATIONAL CLIENTELE FOR OVER A DECADE

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.