

BVS SERIES UNIVERSAL INPUT

GENERAL SPECIFICATIONS

AC Input:

BVS products automatically adjust to the input voltage as follows: BVS30, 40, 60, 80: wide range input from 90-264 VAC

DC Outputs:

See Voltage/Current Rating Charts.

Output Power:

See Voltage/Current Rating Charts.

Peak Output Power:

See Voltage/Current Rating Charts.

Sixty second maximum peak power durations. A 10% duty cycle is not to be exceeded when peak power durations are combined.

Brown-Out Voltage:

Regulation is maintained with full rated load at 90 VAC

Hold-Up Time:

20 msec typical at full rated load and nominal AC input voltage. Hold-up time increases to 40 msec at 50% load.

Power-Fail Warning Signal:

TTL compatible signal goes low before the main +5V output drops 5%, at full rated load on BVS 80

Typical warning time:

BVS 80 : 5 msec where applicable

Warning time increases at reduced load levels

Efficiency:

Measured at full rated load and nominal AC input voltage. 75% \pm 5% depending on how the load is distributed among the outputs.

Regulation Characteristics:

See Voltage/Current Rating Charts for individual model ratings.

Measurement method:

Line: Measured over a 90-132 VAC or 175-264 VAC line change.

Load: Measured over a 20% to 100% load change. Multiple output model regulation is subject to the minimum load requirements mentioned below.

Minimum Loads:

The following minimum loads are required to maintain regulation. Multiple output models are expressed as current on the main output.

	Multiple output	Single output
BVS 80	1A	5 Watts
BVS 40, 60	0.5A	3 Watts

BVS40 board only models: Consult factory for minimum load requirements. Please note that minimum load requirements increase at temperatures over 50°C.

Initial Setting Tolerance:

Measured at 50% of full rated load on all outputs.

Remote Sensing:

Optional on selected models only.

Output Noise and Ripple:

0.3% RMS, 1% PK-PK maximum on main +5V output.

Transient Response:

Main +5V output: 500 μ sec typical for a 50-100% load change and recovery to within 1% of initial voltage set point. Maximum excursion: 4% from initial voltage set point.

Overload Protection:

Fully protected against output overload and short circuit. Automatic recovery upon removal of overload condition. Delayed-foldback current limiting characteristics assure reliable turn-on into reactive and non-linear loads.

Overvoltage Protection:

Provided on the main +5V output. Factory set at 6.2V \pm 0.6V.

Power-Up Initialization Period:

Typical 2.0 sec turn-on delay assures orderly ramp-up and stabilization of all output voltages during power-up.

Input Protection:

AC input line fuse provided. Internally located.

Inrush Current:

Internally limited by thermistor.

Temperature Rating:

Operating: 0°C to +50°C at full rated output power. Derate linearly to 50% of full load from 50°C to 70°C.
Storage: -55°C to +85°C.

Temperature Coefficient:

\pm 0.03%/°C typical, \pm 0.05%/°C maximum over entire operating temperature range of 0°C to +70°C.

Cooling:

Convection cooling is adequate for convection power ratings providing that non-restricted convection air movement is available. When operating in a confined area, forced air cooling is recommended. See voltage/current rating charts for individual model airflow requirements.

Vibration:

Random vibration from 10Hz to 2KHz, 6.15 grms (3 axis).

Shock:

Operating: 20G peak acceleration.

Safety Agency Certifications:

- UL 1950 without D3 deviation, file #E181899
- CSA C22.2 No. 950, UL file #E181899
- CE Marked