

## Linear Regulated DC Power Supply 240/480V Input Voltage Series: BVA

- 208/240/440/460/480 VAC input; 50/60 HZ
- Output is regulated DC power
- Up to 720 watts regulated output
- MTBF over 250,000 hours
- Low radio interference
- Output ripple as low as 2mV RMS
- Standard overload protection
- Standard reverse polarity protection
- Standard short circuit protection
- Standard remote and local sense (most models)
- Vibration and shock per MIL-STD-810B
- Two year warranty

### Agency Approvals:

- Designed to meet UL 60950-1/ CSA 60950/ and EMC Directives

### Value Added Options Include:

- Screw terminal block
- Overvoltage protection (standard on 5 volt models)
- Mounting spacers
- Input fuse

### Specifications:

**AC Input:** 240/480 VAC +/-10%, 47-63Hz. See chassis ID label for jumper and line fusing requirements.

**DC Output:** See Selection Guide for voltage/current ratings. The output is floating; either positive or negative terminal can be grounded. Output adjustment range is +/-10%, except variable 10-18V outputs.

**Line Regulation:** +/-0.05% for 10% line change.

**Load Regulation:** +/-0.05% for 50% load change.

**Thermal Regulation:** +/-0.02% per °C maximum, +/-0.005% per °C typical

**Output Ripple:** 2mV rms maximum, 3mV P-P.

**Dynamic Response:** 30 microseconds for 50% load change.

**Stability:** +/-0.3% for 24 hour period after 1 hour warm-up.

**Short Circuit and Overload Protection:** Foldback current limiting, set at 120% of nominal

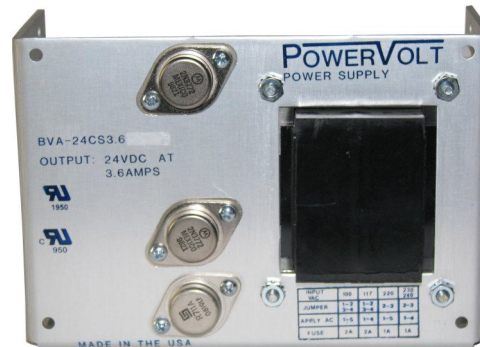
**Overvoltage Protection:** Crowbar overvoltage protection is standard on all 5 VDC main outputs and is factory set at 6.2V +/-0.4V (fixed). Optional universal OVP module adjustable from 4.5 to 36V is available for other models.

**Remote Sensing:** Standard on all outputs above 30 watts.

Remote sense will compensate for a cable drop of 0.25V.

Protected against open or shorted sense leads. Twisted pair sense leads are recommended.

**Efficiency:** 5V units: 45%; 12 and 15V units: 55% 24V and higher units: 60%.



This latest addition to our Power Supply Line has been introduced after much demand. Endless applications will be more cost effective with DC power attainable directly from your high line. All power supplies listed here have an input voltage of 240/480 VAC

**Operating Temperature:** 0°C to 50°C full rated load, derate linearly to 40% at 70°C.

**Storage Temperature:** -55°C to +85°C.

**Vibration:** Per MIL-STD-810B, method 514, procedure 1, curve AB (to 50Hz).

**Shock:** Per MIL-STD-810B, method 516, procedure V.

**Safety Standards:** Designed to meet safety regulations of UL, CSA, VDE, CE and other international standards.

**Finish:** Clear aluminum chassis. Chassis also serve as heat sink.

**Mounting:** Units can be mounted on several surfaces.

Mounting holes will accept "press fit" # 6-32 threaded fasteners.

For efficient cool, allow unrestricted airflow.

Forced air cooling may be recommended.

# Linear Regulated DC Power Supply

## 240/480V Input Voltage

### Series: BVA



#### Selection Guide

Part Number	Case Size	Input	Output (VDC)
BVA-5CS9-OVP-480	CS	240/480	5 @ 9.0A
BVA-5DS12-OVP-480	DS	240/480	5 @ 12A
BVA-5ES18-OVP-480	ES	240/280	5 @ 18A
BVA-5FS25-OVP-480	FS	240/480	5 @ 25A
BVA-12CS5.1-480	CS	240/480	12 @ 5.1A
BVA-12DS6.8-480	DS	240/480	12 @ 6.8A
BVA-12ES10.2-480	ES	240/480	12 @ 10.2A
BVA-12FS16-480	FS	240/480	12 @ 16A
BVA-15CS4.5-480	CS	240/480	15 @ 4.5A
BVA-15DS6-480	DS	240/480	15 @ 6A
BVA-15ES9-480	ES	240/480	15 @ 9A
BVA-15FS15-480	FS	240/480	15 @ 15A

Part Number	Case Size	Input	Output
BVA-24CS3.6-480	CS	240/480	24 @ 3.6A
BVA-24DS4.8-480	DS	240/480	24 @ 4.8A
BVA-24ES7.2-480	ES	240/280	24 @ 7.2A
BVA-24FS12-480	FS	240/480	24 @ 12A
BVA-28CS3-480	CS	240/480	28 @ 3A
BVA-28DS4-480	DS	240/480	28 @ 4A
BVA-28ES6-480	ES	240/480	28 @ 6A
BVA-28FS10-480	FS	240/480	28 @ 10A
BVA-48DS3-480	DS	240/480	48 @ 3A
BVA-48ES4-480	ES	240/480	48 @ 4A
BVA-48FS8-480	FS	240/480	48 @ 8A

**Screw Terminals (T):** Solder terminals standard. Add "T" for screw terminals, 20A/300V  
**Overvoltage Protection (OVP):** OVP is standard on all 5V main outputs. Add "OVP" to part number for individual OVP module on other models up to 36VDC outputs.

**Mounting Spacers (S):** For mounting spacers on any one surface add 'S' to part number. Not available on FS and GS case sizes.  
**Input Fuse (F):** For input fuse and fuse holder add "F" to part number.

## DIMENSIONS

**CS CASE** WEIGHT: 6 LBS.

AC INPUT OVP (OPT) DC OUTPUT

1/8" DIA. MTG. HOLES (16 PL)

INCH mm	
A	7.00 177.80
B	6.250 158.75
C	4.87 123.70
D	4.125 104.78
E	0.50 12.70
F	1.250 31.75
G	0.75 19.05
H	0.450 11.43
J	2.75 69.85
K	0.38 9.65

OVERALL SIZE  
7.00" x 4.87" x 3.20"

**DS CASE** WEIGHT: 7.5 LBS.

AC INPUT OVP (OPT) DC OUTPUT

1/8" DIA. MTG. HOLES (16 PL)

INCH mm	
A	9.00 228.60
B	8.000 203.20
C	0.50 12.70
D	4.87 123.70
E	4.125 104.78
F	1.250 31.75
G	2.75 69.85
H	0.75 19.05
J	0.525 13.34

OVERALL SIZE  
9.00" x 4.87" x 3.28"

**ES CASE** WEIGHT: 10 LBS.

AC INPUT OVP (OPT) DC OUTPUT

1/8" DIA. MTG. HOLES (16 PL)

INCH mm	
A	14.00 355.60
B	13.000 330.20
C	4.87 123.70
D	4.125 104.78
E	0.50 12.70
F	1.250 31.75
G	0.75 19.05
H	0.650 16.51
J	2.75 69.85

OVERALL SIZE  
14.00" x 4.87" x 3.40"

**FS CASE** WEIGHT: 19 LBS.

AC INPUT DC OUTPUT OVP (OPT) HEATSINK AREA

1/8" DIA. MTG. HOLES (16 PL)

INCH mm	
A	16.75 425.45
B	16.00 406.40
C	4.88 123.95
D	4.125 104.00
E	0.375 9.53
F	5.00 127.00
G	2.50 63.50
H	1.50 38.10
J	3.50 88.90
K	2.50 63.50

OVERALL SIZE  
16.75" x 5" x 4.88"

Any application, Any requirement, Contact us for our Custom Designs