B SERIES

High Voltage Power Supply

The B Series of high-voltage regulated AC-DC converters addresses the need for an AC line operated, fully integrated, chassis mount, fixed-output regulated high-voltage power supply with nominal performance and limited functions. Designed and built utilizing state-of-the-art power-conversion topology, these units feature design, manufacturing process, and encapsulation techniques that provide high reliability.

Typical applications for the B Series include the following:

Bias supplies, isolation testers, electrostatics, air ionization, air & oil precipitators, ozone generators, UV lamps, capacitor charging, and flash lamps.

- Lower cost than a (2) module AC-DC & DC-DC solution
- 12 models provide fixed outputs of 1kV to 12kV
- ±10% output adjustment range
- 4, 20, 30 or 50 watts of output power
- Input of 115VAC or 230VAC



- Indefinite output short-circuit protection
- · Output arc protection
- Fault monitor with isolated relay contacts
- Variable-frequency, low-stored-energy design
- CE, designed for UL, cUL, IEC-61010-1

PARAMETER	CONDITIONS	MODELS							UNITS																	
INPUT																										
Voltage Range	Full Power	115 (100 to 130VAC) 230 (200 to 260VAC)													VAC											
Frequency	Frequency All Modes			50 to 400													Hz									
Current No Load, Max Eout													<1	TBD												mA
Current Max Load, Max Eout			< 500 @ 115VAC													mA										
Inrush Current	Nominal Input, Full Load												<1	TBD												Α
OUTPUT			1	kV			2	kV			3	kV			4	ίV			51	κV			61	kV		
Voltage	Voltage Nominal Input			1,000			2,000			3,000				4,000			5,000			6,000			VDC			
Power	Nominal Input, Max Eout	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	W
Current	lout Entire Output Voltage Range	4	20	30	50	2	10	15	25	1.3	6.6	10	16.6	1	5	7.5	12.5	.8	4	6	10	.6	3.3	5	8.3	mA
OUTPUT		7kV			8kV			9kV		10kV			11kV		12kV											
Voltage	Nominal Input	7,000			8,000			9,000			10,000			11,000			12,000			VDC						
Power	Nominal Input, Max Eout	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	4	20	30	50	W
Current	lout Entire Output Voltage Range	.57	2.86	4.23	7.14	.5	2.5	3.75	6.25	.44	2.22		5.55	.4	2	3	5	.36	1.82	2.73	4.55	.33	1.67	2.5	4.17	mA
OUTPUT												A	LL T	ΥPI	ES											
Voltage Adjust									_				±1	0%												٧
Ripple Full Load, Max Eout		< 0.45%													%V p-p											
Line Regulation	Nom. Input, Max Eout, Full Power	. Input, Max Eout, Full Power			< 0.10%														VDC							
Static Load Regulation	No Load to Full Load, Max Eout		< 0.10%						VDC																	
Stability 30 Min. warmup, per 8 hr/ per day		< 0.10%													VDC											
FAULT MONIT	OR	ALL TYPES																								
Isolated Relay		OK= Normally open & common connected, Fault= Normally closed & common connected																								
ENVIRONMENTAL		ALL TYPES																								
Operating	Full Load, Max Eout, Case Temp.	0 to +40								°C																
Temperature Coefficient	Over the Specified Temperature	400							PPM/°C																	
Storage	Non-Operating, Case Temp.				-40 to +85														°C							
Humidity	Non-Condensing	0 to 90% Non-Condensing							-																	

Specifications subject to change without notice.



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CONSTRUCTION

Aluminum

SIZE

Dimensions:

7.87" (200mm) x 3.15" (80mm) x 1.57" (40mm)

Volume: 38.92in3 (637.78cc)

Weight: 1.21 lbs (0.55 kg)

Tolerance

±1.0mm

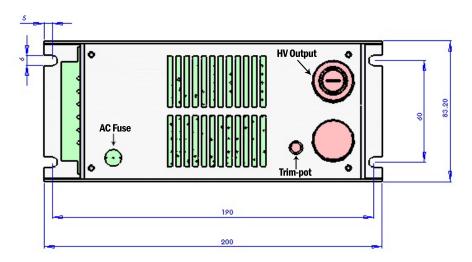
NOTES

Fault monitor is an isolated relay:

OK - Normally Open & Common connected. FAULT - Normally Closed & Common connected.

Contact the factory for other preset fixed outputs

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	ORDERING INFORMATION	
	0 to 1,000 VDC	1
	0 to 2,000 VDC	2
	0 to 3,000 VDC	3
	0 to 4,000 VDC	4
	0 to 5,000 VDC	5
Output	0 to 6,000 VDC	6
	0 to 7,000 VDC	7
	0 to 8,000 VDC	8
	0 to 9,000 VDC	9
	0 to 10,000 VDC	10
	0 to 11,000 VDC	11
	0 to 12,000 VDC	12
Model	Series Name	В
Innut	115 VAC	115
Input	230 VAC	230
Dolovito	Postive Output	-P
Polarity	Negative Output	-N
	0 to 4W Output	4
Dower	0 to 20W Output	20
Power	0 to 30W Output	30
	0 to 50W Output	50

Contact the factory for other output requirements!

Example: Type - Output - Model -	ÌΪ	15- Pola	i i	Ī
	Inp	out	Po	wer

CONNECTIONS							
PIN	FUNCTION						
1	AC Live						
2	AC Neutral						
3	Earth Ground						
4	Fault - Common						
5	Fault - N.C.						
6	Fault - N.O.						



Non-RoHS compliant units are available. Please contact the COMPLIANT factory for more information.

*The B Series is not available in all territories. Please contact an UltraVolt Applications Engineer for details concerning sales in your area.

