

Do you have a high-voltage power supply that meets all of your needs?

UltraVolt offers a cost-effective solution to most high-voltage needs, while maintaining a level of flexibility rivaling custom designs. Our standard product line includes over 600 models with output voltage from **0 to 62V to 0 to 40kV** at output power from **100mW to 250W**. Modified standards are available and may include features such as an optional voltage monitor, enhanced current monitor, reduced ripple and re-ranged power levels. UltraVolt standard products have no NRE costs, no minimum order quantities, and lead times are as low as 10 business days.

Do you have the highly reliable, high performance power supply you need?

UltraVolt has the only high-voltage power supplies available with precision long-term stability. In addition, UltraVolt power supplies are rated at up to 2 million hours mean time before failure (MTBF) - that's over 228 years between failures!

Do you have the best partner working with you on your high-voltage needs?

Our expert applications engineers are ready to assist with any of your specific high-voltage application requirements. UltraVolt is committed to providing quality product that meets industry safety standards. Most UltraVolt HV power supplies are safety agency approved through component listing programs UL/CUL, with CB test certifications supporting the UL/CUL, CE, and DEMKO marks. UltraVolt's high voltage modules are also fully RoHS compliant.

UltraVolt is Making High Voltage Easier!® with Higher Service, Higher Performance, Higher Reliability

SINGLE OUTPUT HIGH VOLTAGE MODULES

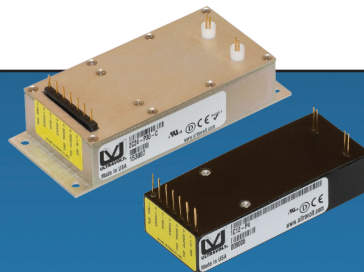
A SERIES & AA SERIES

Our A Series and AA Series provide 0 to 62V through 0 to 6kV at 4W, 20W, or 30W in only 4.30in³ (A Series) and 3.34in³ (AA Series).



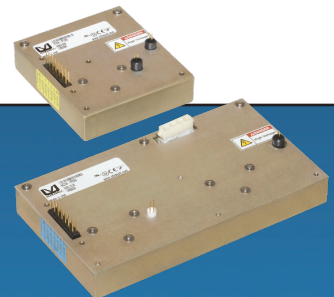
C SERIES

Our C Series models are designed for fast rise time capacitor charging applications from 0 to 62V through 0 to 6kV at 20W or 30W.



HIGH POWER C SERIES

Our High Power C Series units extend the 0 to 125V through 0 to 6kV C Series to 60W, 125W, or 250W.



10A-25A SERIES & 30A-40A SERIES

Our 10A-40A Series extends the A Series to 0 to 10kV through 0 to 40kV with the same 4W to 30W power output.



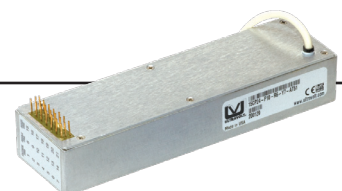
HIGH POWER 8C-30C SERIES

Our High Power 8C-30C Series of high power density high voltage power supplies provide 0 to 8kV through 0 to 30kV at 60W & 125W.



CP SERIES

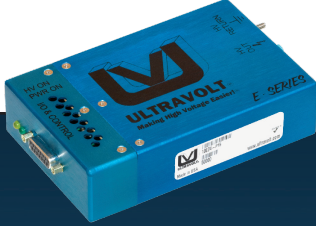
Our CP Series has the unique capability of operating in constant-voltage, constant-current, or constant-power modes. Outputs range from 0 to 15kV at 10W of output power.



PRECISION HVPS

E SERIES

Our E Series operates from 0 to 1kV through 0 to 15kV at 4W, 15/20W or 30W. This series offers PPM-level temperature coefficients, line and load regulation, and ripple.



HV AMPLIFIERS

HVA SERIES

Our HVA Series high voltage amplifier line can both source and sink current. Bipolar models available at 0 to ± 5 kV at 1W; unipolar modules available at 0 to 10kV at 1W.



MULTI-OUTPUT HVPS

BIPOLAR HIGH POWER C SERIES

Our Bipolar High Power C Series units feature dual independent HV outputs from 0 to ± 125 VDC through 0 to ± 6 kV at 0 to 125W (62W x 2) and 250W (125W x 2).



MICROSIZE SINGLE OUTPUT HIGH VOLTAGE MODULES

XS SERIES & US SERIES

Our XS Series and US Series lines provide 0 to 100V (XS Series) or 0 to 500V (US Series) at 100mW of power in only 0.08in³ (XS Series) or 0.35in³ (US Series).



D SERIES

Our D Series models offer a light-weight design with excellent voltage regulation. Output voltages range from 0 to 6kV at 0 to 6W of power and a volume starting at 2.22in³.



V SERIES & M SERIES

Our V Series and M Series offer 0 to 3kV at 0 to 1W of power in a volume of only 0.84in³ (V Series) or 1.28in³ (M Series).



ISOLATED LVPS

FL SERIES

Our FL Series provides floating LV power supplies with isolated controls, allowing HV power supplies, filaments, and electronics to operate while floating on up to 15kV.



EFL SERIES

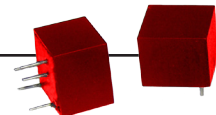
Our EFL Series provides floating LV power supplies with isolated controls, allowing HV power supplies, filaments, and electronics to operate while floating on up to 30kV with two precision analog channels and improved faraday shielding.



ISOLATED MICROSIZE

PXS SERIES

Our PXS Series of proportional extra-small high voltage power supplies has excellent load regulation characteristics as well as superior temperature stability characteristics. Proportional or fixed output voltage from 50V thru 300V (Unipolar) or ± 25 V thru ± 150 V (Bipolar).



MULTI-OUTPUT HIGH VOLTAGE MODULES

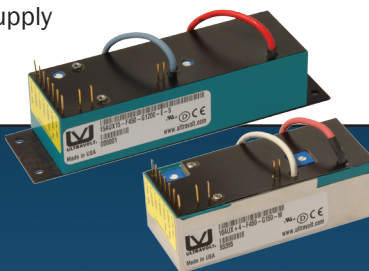
Dual Output AUX Series

Our Dual Output AUX Series provides a second fixed HV output in addition to the adjustable main high-voltage power-supply output. The AUX output is achieved by adding a daughter board inside either 1/16A to 6A or 1/16C to 6C high-voltage power supplies.



Triple Output AUX Series

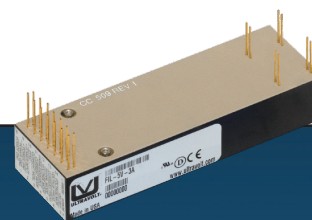
Our Triple Output AUX Series provides second and third adjustable positive HV outputs in addition to the adjustable main positive high-voltage power supply output. The AUX outputs are set for a specific voltage range at the factory. One output is referred to as the Focus, one as the Grid. The AUX is achieved by adding a daughter board inside the 10A-35A high-voltage power supply



FILAMENT SUPPLIES

FIL Series

Our FIL Series is a precision, center-tapped, non-isolated low-voltage filament supply rated for 0 to 5VDC at 0 to 3 Amps. It offers excellent linearity and accuracy of control, allowing users to properly operate the filament to maximize performance and life.



ACCESSORIES AND OPTIONS

-W and -WS OPTION

Output via an HV wire (-W) or shielded HV wire (-WS)



-C OPTION

RF-Tight aluminum enclosure for ruggedized chassis mounting of any 4W to 30W A & C Series units.



-I5 / -I10 OPTION

Enhanced interface options for the 10A, AA, A, and High Power C Series.



-H OPTION

Heat Sink for PCB mounted >4W AA, A, 10A-40A, FIL, C, High Power C, High Power 8C-30C, and Bipolar C Series units.



-E OPTION

Eared Mounting Plate for chassis mounting AA, A, 10A-40A, FL, EFL, FIL, and C Series plastic package units.



-M OPTION

Mu-Metal Shield attenuates EMI, RFL, and HV electrostatic fields. Available on the AA, A, 10A-40A, FIL, FL, EFL, and C Series.



-F OPTION

Ripple Stripper Output Filter® reduces ripple 10 to 100 times on the A, 10A-40A, and HVA Series units.



BR- ACCESSORY

Case mounting bracket kits for chassis mounting AA, A, C, HP C, HP 8C-30C, Bipolar C, FIL, FL, EFL Series plastic package units.



-25PPM OPTION

25PPM temperature coefficient on both the output voltage and output voltage monitor for the A, AA, 10A-40A, C and E Series.



QUICK SELECT CHART - HVPS MODULES

STANDARD SINGLE OUTPUT MODULES

Model Number	Output Voltage (kV)	4 Watt (mA)	20 Watt (mA)	30 Watt (mA)	60 Watt (mA)	125 Watt (mA)	250 Watt (mA)	PCB Mount Plastic Case	Chassis Mount Metal Case	Model Number	Output Voltage (kV)	4 Watt (mA)	15 Watt (mA)	30 Watt (mA)	60 Watt (mA)	125 Watt (mA)	PCB Mount Plastic Case	Chassis Mount Metal Case
1/16A12	1/16AA12	0 to .062	64					STD		8C24	0 to 8				7.5	15.5		STD
1/16A24	1/16AA24			320	480			STD		10A24			5	3			STD	
1/16C24				320	480			STD		10C24					6	12.5		STD
1/8A12	1/8AA12	0 to .125	32					STD		10E24	0 to 10	.400	1.5	3				STD
1/8A24	1/8AA24			160	240			STD		12C24	0 to 12				5	10		STD
1/8C24				160	240			STD		15A12	0 to 15	.260						STD
1/8C24						480	1000	2000	STD	15A24			1	2				STD
1/4A12	1/4AA12	0 to .250	16					STD		15C24					4	8.3		STD
1/4A24	1/4AA24			80	120			STD		15E24	0 to 15	.267	1	2				STD
1/4C24				80	120			STD		20A12	0 to 20	.200						STD
1/4C24						240	500	1000	STD	20A24			.750	1.5				STD
1/2A12	1/2AA12	0 to .500	8					STD		20C24					3	6.25		STD
1/2A24	1/2AA24			40	60			STD		25A12	0 to 25	.160						STD
1/2C24				40	60			STD		25A24			.600	1.2				STD
1/2C24						120	250	500	STD	25C24					2.4	5		STD
1A12	1AA12	0 to 1	4					STD		30A12	0 to 30	.133						STD
1A24	1AA24			20	30			STD		30A24			.500	1				STD
1C24				20	30			STD		30C24					2	4.17		STD
1C24						60	125	250	STD	35A12	0 to 35	.110						STD
1E24			4	20	30			STD		35A24			.420	.840				STD
2A12	2AA12	0 to 2	2					STD		40A12	0 to 40	.100						STD
2A24	2AA24			10	15			STD		40A24			.375	.750				STD
2C24				10	15			STD										
2C24						30	62	125	STD									
2E24			2	10	15			STD										
4A12	4AA12	0 to 4	1					STD										
4A24	4AA24			5	7.5			STD										
4C24				5	7.5			STD										
4C24						15	31	62	STD									
4E24			1	5	7.5			STD										
6A12	6AA12	0 to 6	.660					STD										
6A24	6AA24			3.3	5			STD										
6C24				3.3	5			STD										
6C24						10	21	41	STD									
6E24			.667	3.3	5			STD										

Specifications are subject to change without notice.

HIGH VOLTAGE AMPLIFIERS

Model	Output Voltage	Features
1HVA	0 to 1kV, 0 to ±1kV	Unipolar or Bipolar Precision HV Amplifier
2HVA	0 to 2kV, 0 to ±2kV	Unipolar or Bipolar Precision HV Amplifier
4HVA	0 to 4kV, 0 to ±4kV	Unipolar or Bipolar Precision HV Amplifier
5HVA	0 to ±5kV	Bipolar Precision HV Amplifier
6HVA	0 to 6kV	Unipolar Precision HV Amplifier
10HVA	0 to 10kV	Unipolar Precision HV Amplifier

CONSTANT POWER HIGH VOLTAGE

Model	Output Voltage	Features
1CP	0 to 1kV	Constant 10W from 0.1kV to 1kV
2CP	0 to 2kV	Constant 10W from 0.2kV to 2kV
4CP	0 to 4kV	Constant 10W from 0.4kV to 4kV
6CP	0 to 6kV	Constant 10W from 0.6kV to 6kV
10CP	0 to 10kV	Constant 10W from 1kV to 10kV
15CP	0 to 15kV	Constant 10W from 1.5kV to 15kV

BIPOLAR HIGH VOLTAGE POWER SUPPLIES

Model	Output Voltage	Output Power	Features
1/8C to 6C	0 to ±125V to 0 to ±6kV	NP-125 & NP-250	Independently controllable dual outputs

QUICK SELECT CHART - MICROSIZE/MICROPOWER PRODUCTS

MICROSIZE SINGLE OUTPUT MODULES

Model Number	Output Voltage (kV)	100 mW (mA)
0.1XS5	0 to 0.1	1
0.2US5	0 to 0.2	.500
0.2US12		.500
0.3US5	0 to 0.3	.330
0.3US12		.330
0.4US5	0 to 0.4	.250
0.4US12		.250
0.5US5	0 to 0.5	.200
0.5US12		.200

Model Number	Model Number	Output Voltage (kV)	500 mW (mA)	800 mW (mA)	1 Watt (mA)
0.6V12	0.6M12	0 to 0.6	.830		
0.6V15	0.6M15			1.33	
0.6V24	0.6M24				1.66
1V12	1M12	0 to 1.0	.500		
1V15	1M15			.800	
1V24	1M24				1.00
1.25V12	1.25M12	0 to 1.25	.400		
1.25V15	1.25M15			.640	
1.25V24	1.25M24				.800
1.5V12	1.5M12	0 to 1.5	.330		
1.5V15	1.5M15			.530	
1.5V24	1.5M24				.660
2V5	2M5	0 to 2.0	.250		
2V12	2M12			.400	
2V24	2M24				.500
2.5V5	2.5M5	0 to 2.5	.200		
2.5V12	2.5M12			.320	
2.5V24	2.5M24				.400
3V5	3M5	0 to 3.0	.167		
3V12	3M12			.267	
3V24	3M24				.333

Model Number	Output Voltage (kV)	1 Watt (mA)	2 Watt (mA)	4 Watt (mA)	6 Watt (mA)
1D15	0 to 1	1	2	4	6
1D24		1	2	4	6
2D15	0 to 2	.500	1	2	3
2D24		.500	1	2	3
4D15	0 to 4	.250	.500	1	1.5
4D24		.250	.500	1	1.5
6D15	0 to 6	.166	.333	.666	1
6D24		.166	.333	.666	1

Model Number	Output Voltage (kV)	1.5 Watt (mA)
0.025PXS??-BP	0 to .15	30
0.05PXS??-P/N	0 to .3	30
0.05PXS??-BP	0 to .3	15
0.075PXS??-BP	0 to .15	10
0.1PXS??-P/N	0 to .3	15
0.1PXS??-BP	0 to .3	7.5
0.125PXS??-BP	0 to .15	6
0.15PXS??-P/N	0 to .3	10
0.15PXS??-BP	0 to .3	5
0.2PXS??-P/N	0 to .3	7.5
0.25PXS??-P/N	0 to .3	6
0.3PXS??-P/N	0 to .3	5

All models are available with input voltages of: 3.3VDC, 5VDC, 9VDC, 12VDC, 15VDC, 24VDC, and 28VDC

ISOLATED POWER SUPPLIES

Model	Floating Output Voltage	Features
15FL12	+12VDC, -12VDC, +5VDC	Floating Low Voltage Power Supply & Analog/Digital Controls
15FL24	+24VDC, -12VDC, +5VDC	Floating Low Voltage Power Supply & Analog/Digital Controls
15EFL12	+12VDC, +15VDC, -15VDC, +5.1VDC	Enhanced Floating Low Voltage Power Supply & Analog/Digital Controls
15EFL24	+24VDC, +15VDC, -15VDC, +5.1VDC	Enhanced Floating Low Voltage Power Supply & Analog/Digital Controls

FILAMENT SUPPLIES

Model	Features
FIL-5V-3A	Output load regulation is <0.5% in constant voltage mode, no load to full load; <0.05% in constant current mode, short circuit to full load. Output line regulation is <0.01% in CV or CC mode (+21.6VDC to +26.4VDC). Accuracy ±0.1% & linearity error of <0.01%.

product mini-catalog



High Voltage Modules

Precision HV Power Supplies

High Voltage Amplifiers

Microsize/Micropower HV

Accessories

1-800-9HV-POWER

1-800-948-7693 +1 (631) 471-4444 csd@ultravolt.com

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