

# Quick Select Chart



## GENERAL PURPOSE HIGH VOLTAGE POWER SUPPLIES

Product Series	Max output Voltage <sup>1</sup>	Max output Power	Description	Control	Ripple (Peak to Peak)	Temperature Coefficient (ppm per °C)
<b>Micro-size to Compact DC to High Voltage DC Modules (PCB Mount)</b>						
<b>XS</b>	0.1 kV	0.1 W	Single output (Unipolar)	Analog	< 0.05%	< 50
<b>PXS</b>	0.3 kV ± 0.15 kV (Bipolar)	3 W	Single output (Unipolar or Bipolar)	Proportional	< 1.0%	< 200
<b>US</b>	0.5 kV	0.1 W	Single output (Unipolar)	Analog	< 0.01%	< 50
<b>RS</b>	±0.7 kV (Bipolar)	10 W	Single or dual output (Bipolar, isolated)	Analog	< 0.50%	< 200
<b>M</b>	3 kV	1 W	Single output (Unipolar)	Analog	< 0.01%	< 100 (std) < 25 (opt)
<b>V</b>	3 kV	1 W	Single output (Unipolar)	Analog	< 0.01%	< 100 (std) < 25 (opt)
<b>MPM</b>	3 kV	1.5 W	Single output (Isolated or non-isolated available)	Proportional	< 0.50% (std) < 0.05% (opt)	< 300
<b>D</b>	6 kV	6 W	Single output (Unipolar)	Analog	< 0.02%	< 100
<b>AA</b>	6 kV	30 W	Single output (Unipolar)	Analog	< 0.15% (std) < 0.01% (opt)	< 50 (std) < 25 (opt)
<b>Standard-size DC to High Voltage DC Modules (PCB or Chassis-Mount)</b>						
<b>FLHV</b>	±6 kV (dual output)	15 W	Dual output (Unipolar, floating, or isolated)	Analog	< 0.05%	< 50 (std) < 25 (opt)
<b>C</b>	6 kV	30 W	Single output (Unipolar)	Analog	See datasheet	< 50 (std) < 25 (opt)
<b>PSM10</b>	15kV	10 W	Single output (Unipolar)	Analog	< 0.70%	< 50
<b>HVA</b>	20 kV ±20 kV (Bipolar)	2 W	Precision single output (Unipolar or Bipolar reversing) amplifier	Analog	< 0.05% (std) < 0.0025% (opt)	< 25 (std) < 15 (opt)
<b>AUX</b>	6 kV (dual output) 35 kV (triple output)	30 W	Dual or triple output (Unipolar) with adjustable/fixed range	Potentiometer	See datasheet	See datasheet
<b>A</b>	40 kV	30 W	Single output (Unipolar)	Analog	< 0.01%	< 50 (std) < 25 (opt)
<b>High-Power C</b>	60 kV (single output) ±6 kV (dual output)	250 W	Single or dual output (Unipolar) high-power capacitor charging supply	Analog	See datasheet	< 50 (std) < 25 (opt)
<b>Chassis-Mount DC to High Voltage DC Power Supplies</b>						
<b>E</b>	15 kV	30 W	Precision single output (Unipolar)	Analog	< 0.10%	< 25 (std) < 10 (opt)
<b>MH60</b>	50 kV	60 W	Precision single output	Analog	< 0.05%	< 100
<b>MH100</b>	50 kV	100 W	Precision single output	Analog	< 0.10%	< 200
<b>MHX</b>	80 kV	100 W	Precision single output	Analog	< 0.10%	< 200

## GENERAL PURPOSE HIGH VOLTAGE POWER SUPPLIES, CONTINUED

Product Series	Max output Voltage <sup>1</sup>	Max output Power	Description	Control	Ripple (Peak to Peak)	Temperature Coefficient (ppm per °C)
<b>Benchtop AC to High Voltage DC Supplies and Accessories</b>						
BT-GP	30 kV	30 W	Single output (Unipolar) benchtop	Potentiometer	< 0.05%	< 200
TF	40 kV	Test fixture	Precision High Voltage test fixture	N/A	N/A	< 100 (std) < 25 (opt)
<b>Rack-Mount AC to High Voltage DC Power Supplies</b>						
MV2000	0.3 kV	2 kW	Single output (Unipolar) 1U	Analog, digital	< 0.10%	< 100
MV3000	0.3 kV	3 kW	Single output (Unipolar) 2U	Analog, digital	< 0.10%	< 100
OL400W	80 kV	0.4 kW	Single output (Unipolar) 1U	Potentiometer, analog, digital	< 0.10%	< 100
OL600W	80 kV	0.6 kW	Single output (Unipolar) 1U	Potentiometer, analog, digital	< 0.10%	< 100
OL1K	60 kV	1 kW	Single output (Unipolar) 2U	Analog, digital	< 0.10%	< 200
HV Rack	40 kV	1 kW	Custom-configurable 3U (Unipolar) supply with up to 4 outputs	Potentiometer, analog	Configuration dependent	Configuration dependent
OL3000	60 kV	3 kW	Single output (Unipolar) 3U	Potentiometer, analog	< 0.10%	< 100
OLS10K	80 kV	10 kW	Single output (Unipolar) 6U	Analog, digital	< 0.05%	< 100
OLS10KD	80 kV	10 kW	Single output (Unipolar) 6U	Analog, digital	< 0.05%	< 100
<b>Rack-Mount/Disc Set AC to High Voltage DC Power Supplies</b>						
OLH10K	500 kV	10 kW	Single output (Unipolar) 3U with HV disc set	Analog, digital	< 0.10%	< 100
OLH10KD	500 kV	10 kW	Single output (Unipolar) 4U with dual-range HV output options	Analog, digital	< 0.10%	< 100
OL20K	200 kV	20 kW	Single output (Unipolar) 6U with HV disc set	Analog, digital	< 0.10%	< 200
<b>Standard-size DC to DC Low Voltage Modules (PCB or Chassis-Mount)</b>						
FIL	5 V	15 W	Precision single output fixed range (Unipolar) filament supply	Analog	N/A	< 15
FL	5.6V, 12, 24, -15 V	36 W	Quad output fixed range (Unipolar) power supply with signal isolators	Fixed	See datasheet	See datasheet
EFL	12, 24, ±15 V	36 W	Quad output fixed range (Unipolar) power supply with signal isolators	Fixed	See datasheet	See datasheet

## APPLICATION-SPECIFIC HIGH VOLTAGE POWER SUPPLIES

Product Series	Max output Voltage <sup>1</sup>	Max output Power	Description	Control	Ripple (Peak to Peak)	Temperature Coefficient (ppm per °C)
<b>X-Ray: AC to High Voltage DC Power Supplies (Chassis-Mount)</b>						
<b>XRG70</b>	+70 kV	72 W	Grounded filament	Analog, digital	< 0.20%	< 100
<b>XR150</b>	-60 kV	150 W	Floating filament	Analog, digital	< 0.20%	< 100
<b>XR1000</b>	-90 kV	1 kW	Floating filament	Analog, digital	< 0.25%	< 100
<b>Mass Spectrometry: DC to High Voltage DC Power Supplies (Chassis-Mount)</b>						
<b>MSQ</b>	±430 V to ±1.35 kV	85 W	High leakage electrostatic lens PSU	Analog, digital	< 0.05%	< 250
<b>MSRD</b>	3 kV	1.8 W	Unipolar: positive or negative config bias PSU Floating detector, speed typ 100 ms	Analog, digital	< 200 mV	< 100
<b>MSRZ</b>	10 kV	3.2 W	Bipolar, reversible, speed typ 10 ms, medium ripple, high stability	Analog, digital	< 60 mV	< 25
<b>MSRF</b>	10 kV	3.2 W	Bipolar, reversible, speed typ 30 ms, low ripple, high stability	Analog, digital	< 500 mV	< 25
<b>MSS</b>	20 kV	5 W	Unipolar: positive or negative config general purpose	Analog, digital	< 0.02%	< 300
<b>MSP</b>	20 kV	10 W	Unipolar: positive or negative config precision, low ripple, high stability	Analog, digital	< 10 mV	< 25
<b>MSRL</b>	30 kV	10 W	Bipolar, low ripple, high stability	Analog, digital	< 10 mV	< 25
<b>Electron Beam and Ion Pumping: DC to High Voltage DC Power Supplies (Chassis-Mount)</b>						
<b>EG353</b>	Accelerator -30 kV, 200 μA (-35 kV for conditioning) Extractor +10 kV, 400 μA Suppressor -1 kV, 100 μA Heater +5 V, 3 A	Accelerator: 6 W Extractor: 4 W Suppressor: 0.1 W Heater: 15 W	Low ripple electron beam power	Digital	Accelerator < 2 ppm (50 mV) Extractor < 2 ppm (20 mV) Suppressor < 30 ppm (30 mV) Heater 5 mV per 1 mA (1R load)	Accelerator: < 25 Extractor: < 25 Suppressor: < 20
<b>G603</b>	Accelerator -60 kV, 100 μA Extractor +10 kV, 400 μA Suppressor -1 kV, 20 μA Focus +25 kV, 30 μA Heater +5 V, 3 A	Accelerator: 6 W Extractor: 4 W Suppressor: 0.02 W Focus: 0.75 W Heater: 15 W	Low ripple electron beam power	Digital	Accelerator < 3 ppm (150 mV) Extractor < 4 ppm (35 mV) Suppressor < 25 ppm (25 mV) Focus < 4 ppm (100 mV) Heater 5 mV per 1 mA (1R load)	Accelerator: < 5 Extractor: < 25 Suppressor: < 50 Focus: < 25 Heater: < 200
<b>IP100</b>	7 kV	115 W	Unipolar: positive or negative config	Analog	30 V	N/A

<sup>1</sup> Positive and Negative Polarity Models Available