

QUICK SELECT CHART - HIGH VOLTAGE MODULES

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) | 880 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 |

| 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 |

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 |
|--------------|---------------------|-------------|--------------|--------------|--------------|---------------|---------------|------------------------|--------------------------|
| 1/16A12 | 1/16AA12 | 0 to .062 | 64 | | | | | STD | |
| 1/16A24 | 1/16AA24 | | | 320 | 480 | | | STD | |
| 1/16C24 | | | | 320 | 480 | | | STD | |
| 1/8A12 | 1/8AA12 | 0 to .125 | 32 | | | | | STD | |
| 1/8A24 | 1/8AA24 | | | 160 | 240 | | | STD | |
| 1/8C24 | | | | 160 | 240 | | | STD | |
| 1/8C24 | | | | | 480 | 1000 | 2000 | | STD |
| 1/4A12 | 1/4AA12 | 0 to .250 | 16 | | | | | STD | |
| 1/4A24 | 1/4AA24 | | | 80 | 120 | | | STD | |
| 1/4C24 | | | | 80 | 120 | | | STD | |
| 1/4C24 | | | | | 240 | 500 | 1000 | | STD |
| 1/2A12 | 1/2AA12 | 0 to .500 | 8 | | | | | STD | |
| 1/2A24 | 1/2AA24 | | | 40 | 60 | | | STD | |
| 1/2C24 | | | | 40 | 60 | | | STD | |
| 1/2C24 | | | | | 120 | 250 | 500 | | STD |
| 1A12 | 1AA12 | 0 to 1 | 4 | | | | | STD | |
| 1A24 | 1AA24 | | | 20 | 30 | | | STD | |
| 1C24 | | | | 20 | 30 | | | STD | |
| 1C24 | | | | | 60 | 125 | 250 | | STD |
| 1E24 | | | | 4 | 20 | 30 | | | STD |
| 2A12 | 2AA12 | 0 to 2 | 2 | | | | | STD | |
| 2A24 | 2AA24 | | | 10 | 15 | | | 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 |

| 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 |
|--------------|---------------------|-------------|--------------|--------------|--------------|---------------|------------------------|--------------------------|
| 8C24 | 0 to 8 | | | | 7.5 | 15.5 | | STD |
| 10A24 | | | 5 | 3 | | | | STD |
| 10C24 | | | | | 6 | 12.5 | | STD |
| 10E24 | 0 to 10 | .400 | 1.5 | 3 | | | | STD |
| 12C24 | 0 to 12 | | | | 5 | 10 | | STD |
| 15A12 | 0 to 15 | .260 | | | | | | STD |
| 15A24 | | | 1 | 2 | | | | STD |
| 15C24 | | | | | 4 | 8.3 | | STD |
| 15E24 | | .267 | 1 | 2 | | | | STD |
| 20A12 | 0 to 20 | .200 | | | | | | STD |
| 20A24 | | | .750 | 1.5 | | | | STD |
| 20C24 | | | | | 3 | 6.25 | | STD |
| 25A12 | 0 to 25 | .160 | | | | | | STD |
| 25A24 | | | .600 | 1.2 | | | | STD |
| 25C24 | | | | | 2.4 | 5 | | STD |
| 30A12 | 0 to 30 | .133 | | | | | | STD |
| 30A24 | | | .500 | 1 | | | | STD |
| 30C24 | | | | | 2 | 4.17 | | STD |
| 35A12 | 0 to 35 | .110 | | | | | | STD |
| 35A24 | | | .420 | .840 | | | | STD |
| 40A12 | 0 to 40 | .100 | | | | | | STD |
| 40A24 | | | .375 | .750 | | | | STD |

Specifications subject to change without notice.



Making High Voltage Easier!®

©2010, UltraVolt Inc.
All rights reserved.

QUICK SELECT CHART - SPECIALTY PRODUCTS

| 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 HVPS | | | |
|--------------|-------------------------|-----------------|-----------------------------------------|
| 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 |

| 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%. |

| ISOLATED LOW VOLTAGE 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 |

| TEST FIXTURES | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | Features |
| 40TF-DCD | Precision 10,000:1 divider, ±1%, ±25PPM per °C, voltage coefficient is <1% per 40kV. DC Loading is 1 GigΩ. |
| 40TF-ACV&DCD | 1:1 AC viewing capacitor, 35Hz to 10MHz (Monitor 10Hz to 20MHz), 1mV to 75V Pk, 1000:1 DC divider, ±2%, ±100 PPM per °C. DC Loading is 2 GigΩ. Capacitive loading is < 50pF |
| 40TF-DCD&CLOAD | Compensated 1,000:1 DC Divider, ±2%, ±100 PPM per °C, showing Trise, Tfall, overshoot & settling over a bandwidth of 35Hz to 10MHz (Monitor 10Hz to 20MHz), 300pF capacitive load, DC Loading is 1 GigΩ. |

| HIGH VOLTAGE SYSTEMS | | |
|----------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | Model | Features |
| HV-RACK-1-250 | HV-RACK-4-250 | 19" Rack with 1 to 4 channels of meters & controls. Individual CV/CC controls & limits. Floating channel configuration available. Wide selection of HV output connectors. Available with USB Interface and Labview drivers. Configurable product to meet project-specific needs. |
| HV-RACK-2-250 | HV-RACK-4-500 | |
| HV-RACK-2-500 | HV-RACK-4-750 | |
| HV-RACK-3-250 | HV-RACK-4-1000 | |
| HV-RACK-3-500 | | |
| HV-RACK-3-750 | | |
| Model | Model | Features |
| MMS-EB | | Provides Beam, Filament, Suppressor, Extractor, and Lens bias supplies. Precision control & monitoring. Low ripple & noise, tight stability. Convection cooled design for mounting near the source. Integral HV cables to reduce cost and increase reliability. Configurable product to meet product-specific needs. |
| Model | Model | Features |
| BT-2-XXXX | BT-10-XXXX | Compact high voltage AC-DC bench-top power supply with adjustable output voltage. Single positive or negative output. Available in either analog or digital. Universal input 85-264VAC. Configurable with microsize/micropower product line (XS, US, V, M, or D Series). *When ordering, XXXX in the model number should be replaced by the selected UltraVolt HV power supply part number. |
| BT-4-XXXX | BT-RS-XXXX | |
| BT-5-XXXX | BT-USB-XXXX | |
| | | |

Rev. A 6/10



Making High Voltage Easier!®

1800 Ocean Avenue, Ronkonkoma, NY 11779
 Phone: 1-631-471-4444 Fax: 1-631-471-4696 www.ultravolt.com