



Model 7640 Series High Voltage Power Supply

- Stable high voltage (HV) power supply
- 0.002% regulation for 1 kV models
- Available in 1, 2, 5 and 10kV versions
- Precision 10-turn potentiometer adjustment
- Analog input for remote control

The Model 7640 series of power supplies is comprised of 6 units with maximum output of 1000V, 2000V, 5000V or 10,000V. It is useful for work with photomultiplier tube, channel electron multiplier detectors, soft x-ray sources and related devices.

Voltage can be set with the precision 10-turn lockable potentiometer or remotely, via a scaled input voltage (see chart).

All models feature power connector, power switch, back lit LCD display of HV setting, remote or local mode switch, HV output connector, and auxiliary / remote input connector. Units are supplied with AC Power Cord (110VAC) and High Voltage Output Cable (6-foot cable with rated connectors).

High Voltage Power Supply Specifications						
	Model					
Parameters	7640	7641	7642	7643	7644	7645*
Output Voltage	-1000V	-2000V	+5000V	-5000V	+1000V	+10000
Output Current	2.5mA	1mA	0.5mA	0.5mA	2.5mA	3.0ma
Ripple (p-p)	4mV	4mV	10mV	10mV	4mV	0.001%
Line Regulation	< 0.002%					0.01% Max.
Load Regulation	0.002% Max	0.002% Max	0.001% Max	0.001% Max	0.002% Max	0.01% Max.
Stability	0.002% Max					100 ppm/Hour
AC Input and Frequency	90 to 264VAC / 47 to 440Hz					
Fuses	0.25A(115V) or 0.125A(220V)					2 A (115/240)
Leakage Current	0.75mA					N/A
Efficiency	77%					
Current Limit	120%					
Protection	Short circuit and Arc					
Operating Temperature	0 to 50° C					
Storage Temperature	-20 to 60° C					
Dimensions	2.7"H x 8"W x 12"D					
Weight	4 lbs.					6.2 lbs.
Remote Control Voltage	0 to 10VDC	0 to 10VDC	0 to 9VDC	0 to 9VDC	0 to 10VDC	0 to 5 VDC
HV Output Connector	MHV		SHV		MHV	SHV-20
Part Number	8181-3353-0	8181-3353-1	8181-3353-2	8181-3353-3	8181-3353-4	8181-3353-5

* Model 7645 includes current monitor feature