

Manual for 3660.60 Power supply 0 – 6000 V

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3660.60 AC



The power supply delivers a stabilized DC voltage, adjustable between 0 and 6 kV.

For safety reasons, the current is limited by a built-in series resistance. Short circuit current is 2 mA maximum. Under load, the voltmeter shows the actual output voltage.

The power supply also offers a 6.3 V AC output. This is the standard filament voltage for a large number of discharge tubes etc. A maximum current of 3 A may be drawn from this output.

The yellow/green socket on the front is connected to the chassis and thereby (through the power cable) to ground.

The high voltage section is by design "floating" relative to ground. This means that either the black (negative) terminal or the red (positive) terminal may be connected to ground to give a voltage range of 0 to +6 kV, resp. 0 to -6 kV relative to ground.

Operation

Connect the power supply to the mains using the provided cable.

Turn down the voltage before powering up the unit.

Switch the power on by the "On/Off" switch. The button lights up to indicate that the power supply is turned on.

Connect the external equipment to the high voltage output.

Adjust the voltage to the desired value.

To disconnect the supply, turn down voltage to 0 V first.

Then remove the wires to the high voltage outlet.

Finally, the supply is turned off by the power switch.



Caution

The included power cable is provided with ground connectors, and the power supply must for safety reasons be connected to a grounded mains outlet.

Follow the specified order when connecting and disconnecting sensitive equipment.

This avoids eventual on/off transientst.

Specifications

DC

Output Voltage:	0-6 kV stabilized, continuously adjustable
Short circuit current:	2 mA (Max.)
Ripple and noise (max.):	Less than 1 %
Readout accuracy:	Better than 1% + 1 digit

AC

Output voltage:	6.3 V
Output current (max):	3 A

Miscellaneous

Model	3660.60	3660.61
Mains voltage:	230 V, 50-60 Hz	117 V, 50-60 Hz
Fuse:	0.5A Slow blow	1.0 A Slow blow
Current consumption (max):	0.3 A	0.6 A
Idle current (approx.):	100 mA	200 mA
Power consumption:	80 W (Max.)	
Dimensions (WxDxH):	312 x 225 x 117 mm	
Weight:	4.2 kg	