



M10-HV SERIES

HIGH VOLTAGE ADJUSTABLE DC POWER SUPPLY

Shanghai MCP Corp.

3. CAUTIONS

- 3.1 For maintenance, input voltage must be cut off.
- 3.2 Do not grounding the positive terminal (3) or the power supply may be damaged!
- 3.3 Whatever turn on the power supply or input power restore after power failure, to prevent the output voltage surge, please repeat step (3), (5), (6) in chapter 2.2 before using the power supply.
- 3.4 Only use high voltage test lead!
- 3.5 When operating is finished, put it in a dry place of good ventilation, and keep it clean. If it is not in use for a long period, pull off the power supply plug for storage.

4. ACCESSORIES

- | | |
|----------------------------|--------|
| 4.1 Instruction manual | 1 copy |
| 4.2 High voltage test lead | 2 pcs |
| 4.3 Fuse | 2 pcs |

SAFETY PRECAUTIONS

These instruments fulfill the regulations of CE-LVD (EN-61010:2001) and CE-EMC (EN-55022:1998/+A1:2000; EN 55024:1998; EN61000-3-2:2000; EN61000-3-3:1995)

To ensure safe operation of the equipment and eliminate the danger of serious injury due to short-circuit (arcing), the following safety precautions must be observed.

Damages resulting from failure to observe these safety precautions are exempt from any legal claims whatever.

- * Prior to connection of the equipment to the mains outlet, check that the available mains voltage corresponds to the voltage setting of the equipment.
- * Connect the mains plug of the equipment only to a mains outlet with earth connection.
- * Do not place the equipment on damp or wet surfaces.
- * Do not subject the equipment to direct sunlight or extreme temperatures.
- * Do not subject the equipment to extreme humidity or dampness
- * Replace a defective fuse only with a fuse of the original rating. Never short circuit fuse or fuse housing
- * Do not exceed the maximum permissible input rating.
- * Conduct measuring works only in dry clothing and in rubber shoes, i.e. on isolating mats.
- * Comply with the warning labels and other info on the equipment.
- * Do not insert metal objects into the equipment by way of the ventilation slots
- * Do not place water-filled containers on the equipment (danger of short-circuit in case of knock over of the container)
- * Do not operate the equipment near strong magnetic fields (motors, transformer etc.)
- * Do not subject the equipment to shocks or strong vibrations
- * Keep hot soldering iron or guns away from the equipment
- * Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurement)
- * Do not modify the equipment in any way
- * Do not place the equipment face-down on any table or work bench to prevent damaging the controls at the front.
- * Opening the equipment and any service and repair work must be performed by qualified service personal. Repair work should be performed in the presence of a second person trained to administer first aid, if needed.
- * Power supplies do not belong to children hands.

CLEANING THE CABINET

Prior to cleaning the cabinet, withdraw the mains plug from the power outlet. Clean only with a damp, soft cloth and a commercially available mild household cleaner. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

M10-HV series is high voltage DC regulated powersupply, with its continuously adjustable voltage output from 0 to Max.10kVDC. The model also has a fixed AC output 6.3VAC/3A.

The unit features in compact structure, good performance, novel appearance and etc, it is the ideal power supply unit for science investigation, college, factory, electronic appliance maintenance and etc.

Model	Voltage(DC/AC)	Current(DC/AC)	Size (WxHxD)	Weight(kg)
M10-HV10000A	0 ~10000V/6.3V	10mA/3A	170 x 160 x 275 mm	2
M10-HV6000A	0 ~6000V/6.3V	10mA/3A	170 x 160 x 275 mm	2
M10-HV5000A	0 ~5000V/6.3V	10mA/3A	170 x 160 x 275 mm	2

1. TECHNICAL DATA

1.1 Input voltage: 220VAC~240VAC10%/50Hz

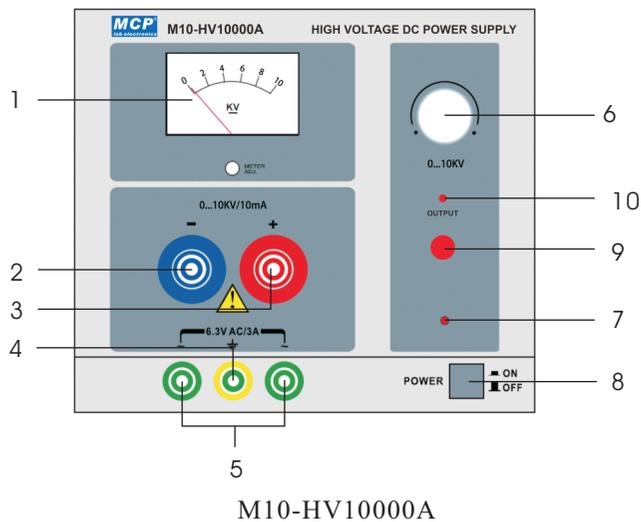
1.2 Output voltage: See table

1.3 Output current: See table

1.4 Display accuracy: $\pm(0.2\%Rdg+2 \text{ digits})$, $\pm 2.5\%$ Full Scale

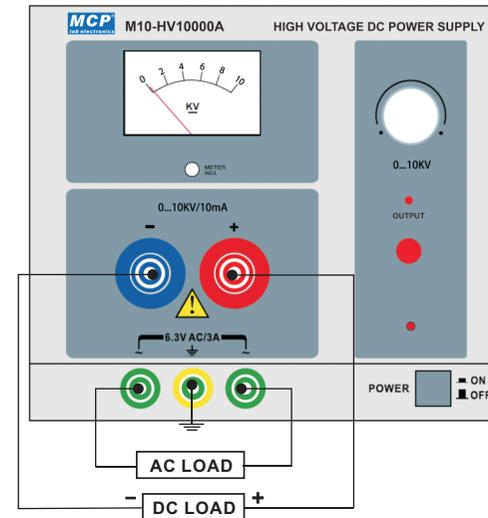
2. OPERATION

2.1 Controls and description of front-panel



- (1) Volt display: indicating output voltage by Analog meter
- (2) Main output terminal (-): connecting the negative terminal of load
- (3) Main output terminal (+): connecting the positive terminal of load
- (4) Case grounding: connect the case to ground
- (5) Fixed AC output terminal: connecting the terminal of load
- (6) Voltage adjust knob: adjusting DC output voltage
- (7) Working LED indicator: When the unit is "ON", the LED illuminating
- (8) Power switch
- (9) Safety output button: for safety, power supply will not output voltage until you push this button
- (10) Output LED indicator: When there is output voltage, the LED illuminating

2.2 Load connection and operations:



The fixed 6.3VAC output on terminal (5) is usually used to the filament of the electronic tube.

- (1) Before connect the load to the power supply, the power must to be turned off!
- (2) Connect the load to the power supply as the picture shown above.
- (3) Make sure the voltage adjust knob (6) must be in the Min. Position (anticlockwise turn the knob to the end)
- (4) Turn on the power supply.
- (5) Press the safety output button (the power supply will not output until you push this button)
- (6) Slowly turn the voltage adjust knob (6) until the output voltage up to the value you need.