S7-1502A

FREQUENCY ADJUSTABLE AC POWER SUPPLY

Shanghai MCP Corp.

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 right sockets.
* 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 ad minister 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.

The mode S7-1502A is a frequency adjustable AC power supply with continuously adjustable output voltage and over current protection.

The unit has compact structure, double insulation, safety and easy operation, wide voltage import, good performance, novel appearance and etc.

It is the ideal power supply unit for education, laboratory, factory, electronic appliance maintenance and etc.

1. TECHNICAL DATA

1.1 Input voltage: 85~265VAC 50/60Hz

1.2 Output voltage:1V~15Vrms

1.3 Output frequency: 0~100Hz (1Hz per step), 100Hz~400Hz (5Hz per step)
4 preset value (50Hz, 60Hz, 100Hz, 400Hz)

1.4 Output current: 1.5A

1.5 Line regulation: 1%

1.6 Load regulation: 1% @50Hz

1.7 Output accuracy: Voltage: 0.5% @50Hz
Frequency: 2% (＜20Hz), 1% (20Hz~400Hz)

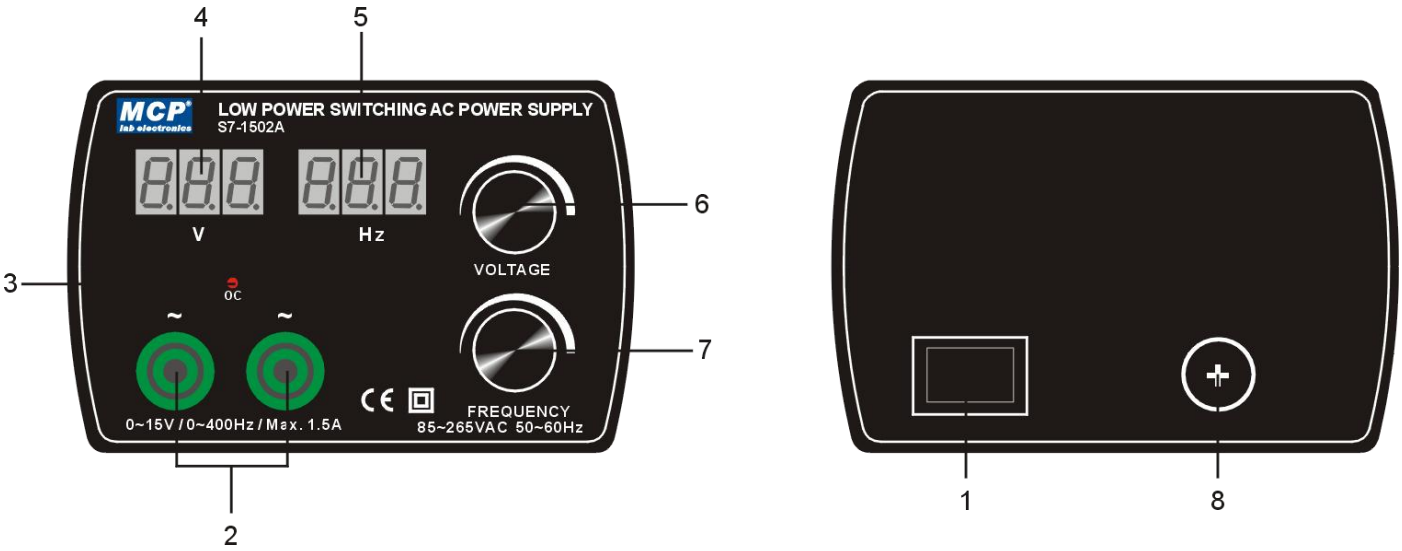
1.8 Protection: Over current

1.9 Dimensions: 110×74×140mm

1.10 Weight: 350g

2. OPERATION

2.1 Panel description



(1) Power switch: the unit is "ON" when in I position

(2) AC output terminal: connect to the AC load

(3) Over current protection indicator: when power supply is in over current protection, the red LED light up

(4) Voltage display: display the output voltage (normal state)
display the setup voltage (decimal point flashing)

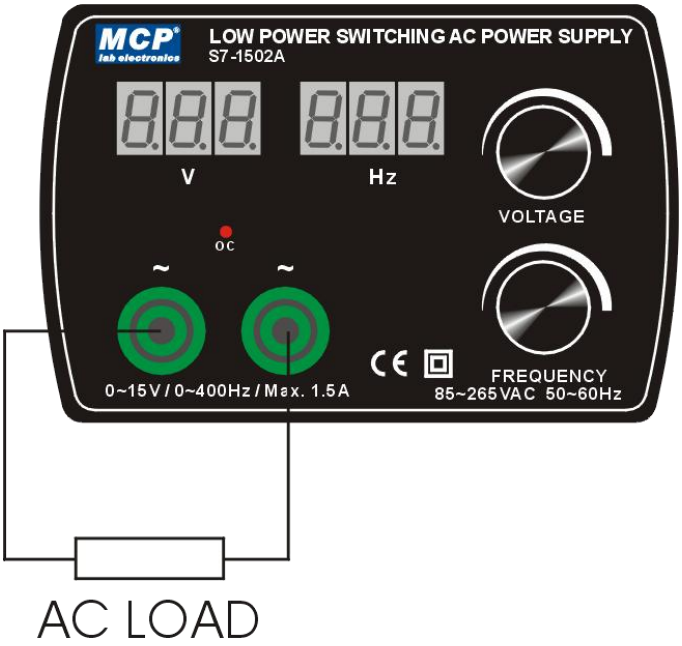
(5) Frequency display: display the frequency of output AC power (normal state)
display the setup frequency of AC power (decimal point flashing)

(6) Voltage adjust knob (rotate): adjust the output voltage continuously
Over current reset (press): reset the power supply to normal state

(7) Frequency adjust knob (rotate): adjust the frequency of the output AC power continuously
Frequency preset (press): fast load the preset frequency value which are commonly used (50Hz, 60Hz, 100Hz, 400Hz)

(8) Fuse: T1.5 power supply fuse

2.2 Operation:



(1) Turn on the power supply with no load, setup the output voltage to make sure it will not damage your load.
(2) Turn off the power supply. Connect AC load as the picture shown above.
(3) Turn on the power supply. Rotate the knob ⑥⑦ to adjust the output you need. You can also press knob ⑦ to load the reset frequency which are commonly used.
Please take notice that when you setup the output voltage or frequency, the LED display the setup value with decimal point flashing, NOT the output value. Then LED will return to normal state and display the output value after a few seconds when you finished setup.
(4) If the power supply is in over current protection state, the OC LED ③ will light up. Please remove the AC load and solve the over load problem. Then connect the AC load to the power supply again and press knob ⑥ to reset the output state.
(5) To get more accurate measuring value, you should use an external circuit with precision measuring meter.

3. CAUTIONS

3.1 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.

3.2 For maintenance, input voltage must be cut off.

4 ACCESSORIES

4.1 Instruction manual: 1 copy

4.2 Fuse: 2 pcs