



CC115 SERIES  
CURRENT GENERATOR

**Shanghai MCP Corp.**

#### 4. Caution

4.1. This unit has excellent protection function. The adjustable output has current-limit protection. As there is controlling circuit for regulating transistor's power loss in the circuit, when short-circuit occurs, the power loss on large power transistors is not very high, it can't cause any damage to the unit. But there is still power loss when short-circuit, in order to reduce aging and energy consumption, so this situation should be find as soon as possible and turn off power, then exclude the faults.

4.2. 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.

4.3. For maintenance, input voltage must be cut off.

#### 5. Accessories

User's Manual	1
Fuse	2

#### Safety Precautions

This product complies with the requirements of the following European Community Directives: 89/336/EC (Electromagnetic Compatibility) and 73/23/EC (Low Voltage) as amended by 93/68/EC (CE-Marking).

To ensure safe operation of the equipment and eliminate the danger of serious injury due to short-circuits (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 correspond to the voltage setting of the equipment.
- \* Do not use this instrument for high-energy industrial installation measurement.
- \* Check test leads and probes for faulty insulation or bare wires before connection to the equipment.
- \* Never touch the tips of the test leads or probe.
- \* Use caution when working with voltages above 35V DC or 25V AC. These Voltages pose shock hazard.
- \* 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, humidity or dampness.
- \* Replace a defective fuse only with a fuse of the original rating. Never short-circuit fuse or fuse holding.
- \* Do not exceed the maximum permissible input ratings.
- \* To avoid electric shock, do not operate this product in wet or damp conditions. Conduct measuring works only in dry clothing and rubber shoes, i. e. on isolating mats.
- \* Comply with the warning labels and other info on the equipment.
- \* Do not cover the ventilations slots of the cabinet to ensure that air is able to circulate freely inside.
- \* Do not insert metal objects into the equipment by the way of ventilation slots
- \* Do not place water-filled containers on the equipment (danger of short-circuit in case of knockover of the container)
- \* Do not operate the equipment near strong magnetic fields (motors, transformers etc.).
- \* Do not subject the equipment to shocks or strong vibrations.
- \* Keep hot soldering irons or guns away from the equipment.
- \* Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurements).
- \* 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.
- \* Do not operate the meter before the cabinet has been closed and screwed safely as terminal can carry voltage.
- \* Periodically wipe the cabinet with a damp cloth and mild detergent. Do not use abrasives or solvents.

- \* The meter is suitable for indoor use only
- \* Do not store the meter in a place of explosive, inflammable substances.
- \* Opening the equipment and service – and repair work must only be performed by qualified service personnel
- \* **Measuring instruments don't 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 cleanser. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

## 1. Introduction

The models CC115 high-precision DC current generator has four ranges adjustable output. There are 10mA, 100mA, 200mA, 1A. There is Amp meter (3 digits LCD) for indicating the output with high accuracy.

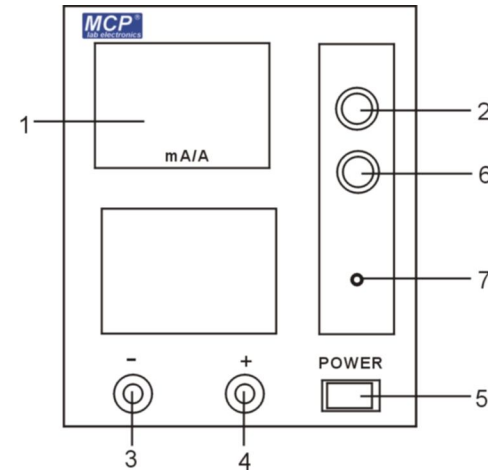
The units features in good performance, novel appearance and etc, it is the ideal current generator unit for science investigation, college, factory, electronic appliance maintenance and etc.

## 2. Technical Data

- .Output Current: 0~1A (3 ranges)
- .Max Voltage: 15V
- .Resolution: 100  $\mu$  A (0~20mA)  
1mA (20~200mA)  
10mA (200mA~1A)
- .Load Regulation: 3%
- .Line Regulation: 3%
- .Display: 3 digits LCD with backlight
- .Input Voltage: 110~127VAC  $\pm$  10% 60Hz,  
220~240VAC  $\pm$  10% 50Hz switchable
- .Dimension: 108  $\times$  154  $\times$  240mm
- .Weight: 2kg

## 3. Operation

### 3.1 Controls and description of front-panel



1. Amp display: indicating output current by LCD
2. Current selection: selecting the current range
3. Output terminal (-): connecting the negative terminal load
4. Output terminal (+): connecting the positive terminal load
5. Power switch: the unit is "ON" when LED in this switch illuminating
6. Current adjustment: adjusting output current value
7. Over voltage indicator: the LED illuminates when the output voltage is over

### 3.2. Operating method

- 3.2.1 After choosing one range then connecting the load.
- 3.2.2 Turn on the unit, and then you can adjust the current.
- 3.2.2 If the over voltage LED indicator illuminates, turn down the current or decline the value of the load.