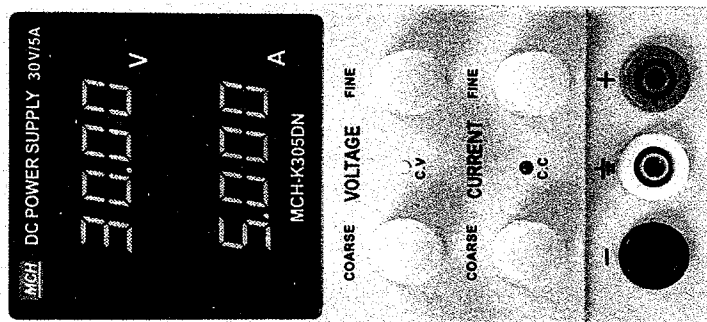


MCH Instruments Co., Ltd

DC power supply

MCH-K302DN/MCH-K303DN/MCH-K305DN/MCH-K3010DN

MCH-K605DN



— Overview

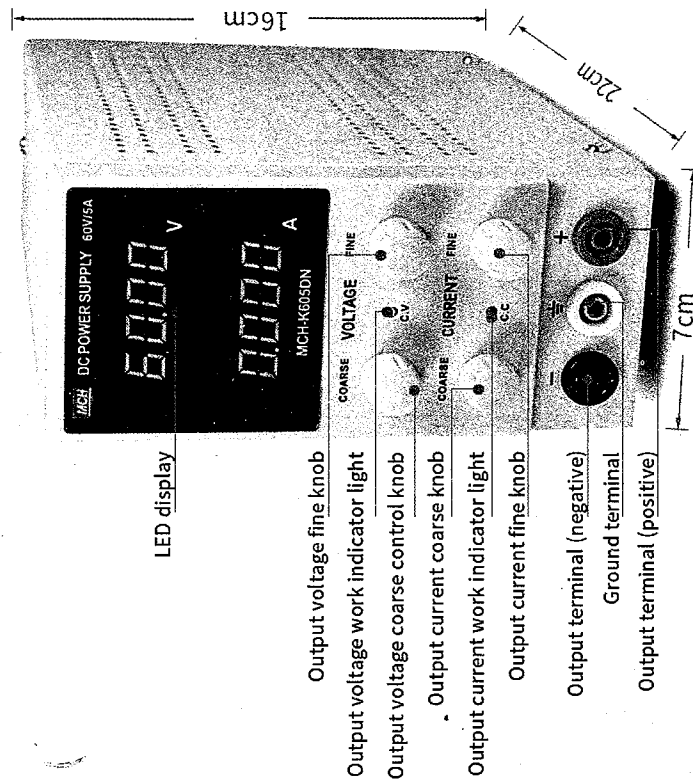
This series of switching power supply is a beautiful appearance of the new structure, the overall compact and lightweight products. Can be full load continuous output, the output voltage, current in the standard range continuously adjustable. In addition, the power supply to increase the temperature control circuit, you can set the temperature to control the power output than the general DC power supply is difficult to achieve very high stability, strong reliability and durability of the power supply, is the research department, Universities and enterprises, as well as personal care of the laptop repair and other high-stability DC power supply ideal choice.

二、 Specification

Model	K302DN	K303DN	K305DN	K3010D	K605DN
Input voltage	110V/220VAC, 60Hz/50Hz (state before order)				
Output voltage range	0-30V	0-30V	0-30V	0-30V	0-60V
Output current range	0-2A	0-3A	0-5A	0-10A	0-5A
Voltage display	0.01V	0.01V	0.01V	0.01V	0.01V
Current display accuracy	0.001A	0.001A	0.001A	0.01A	0.001A
effectiveness	$\pm 0.5\%$				
Source effect	$\leq 0.5\%$				
Load effect	$\leq 0.3\%$				
Ripple and noise	$\leq 50\text{mV rms}$				
Temperature Coefficient	300ppm/°C				
Operating environment	-10°C to +60°C / 30%RH to 90% RH				
size	22(D) x 7(W) x 16(H)cm				
weight	About 2kg				

三、Panel function and operation

3.1 Panel function



Note: When the current through the load (calculated according to Ohm's law) is lower than the preset current value, C.V lights, then the power supply works in constant voltage mode. Otherwise C.C light, then the power supply in constant current mode, through the load current is limited to the preset current value. That is, the load current is greater than the power supply current, work in constant current mode.

3.2 Operation

Output port connection:

Will be standard test dedicated line, red into the "+" port, black into the "-" port.

Set constant current:

The voltage set to 1 ~ 2V; short-circuit positive and negative terminals, adjust the current knob to set the required constant current.

Set constant voltage:

Keep the test leads open and adjust the voltage knob to get the required voltage.

Note: When the constant current is set, the voltage is debugged from 1V to 30V, and the maximum current output remains at the set constant current value. When the load current is greater than the set constant current, the power supply to maintain a constant current output, the voltage will change with the size of the load current, can not maintain a constant pressure state.

四、Accessories and maintenance

4.1 Accessories :

Power cord	1pc
fuse	1pc(inside the socket)
Manual	1pc

4.2 Note:

1. when the power supply voltage is normal, turn on the CV light does not shine or digital display does not shine, It may be that the fuse is blown or the power supply cable is in poor contact and other faults, turn off the power, unplug the power cord, check that the power cord is in good contact with the power outlet, or check whether the fuse is blown.
2. for the use of voltage regulator, the output voltage is less than the set voltage and C. C. light, current protection. The unit automatically switches to constant current operation, in which case the load should be checked or the output current should be increased according to the load.
3. for constant current source, the output current is less than the set current value and C. V light, is open circuit voltage protection, the machine automatically switches to the regulator state, this time

Check the load or increase the voltage according to usage.
4. the use of power, the work is unstable, the local AC input voltage may be less than 90% of the rated voltage. Check that the power supply voltage is within the rated range. If you can not solve the problem, please contact your local dealer as soon as possible.

Note: All due to user errors and damage to the machine or machine parts, I will not be returned to the Secretary, please read the manual carefully before operation.