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# DC REGULATED POWER SUPPLY

K Series



## OPERATION MANUAL

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# **1.INTRODUCTION**

High current power supply is an adjustable, multi-function and high-stability DC power supply. Long time operation at full scale, Extra high accuracy, stability and reliability comparing to normal power supply. They are ideal instruments for R&D departments, colleges and factories.

## 2、MODEL TYPE

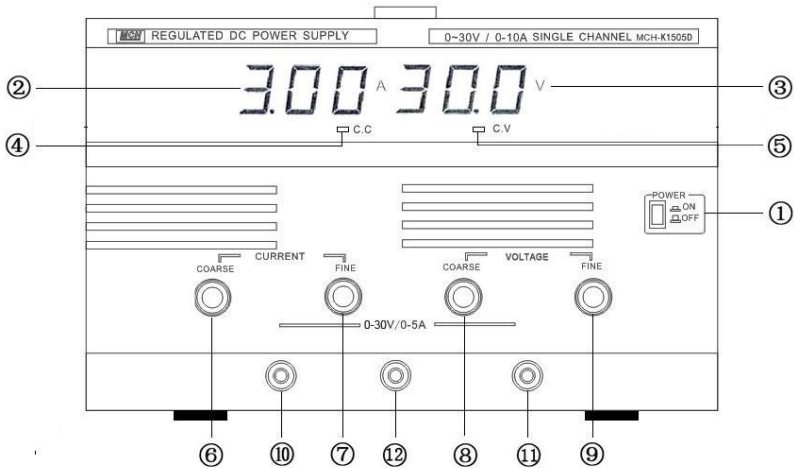
Model	Voltage					Current						Same appearance	Spot
	0~ 30V	0~ 60 V	0~ 100 V	0~ 120 V	0~ 150 V	0~ 4 A	0~ 5 A	0~ 10 A	0~ 20 A	0~ 30 A	0~ 50 A		
K3020D	•								•			•	•
K3030D	•									•		•	•
K3050D	•										•	•	•
K6010D		•						•				•	
K6020D		•							•			•	
K6050D		•									•	•	•
K1005D			•				•					•	•
K1205D				•			•					•	•
K1505D					•		•					•	•
K15010D					•			•					•
K1004D			•			•							•
K1204D				•		•							•
K1504D					•	•							•

## 2.1 Specifications

Types	High Power Power Series
Input voltage	110V/220V $\pm 10\%$ 60/50Hz; (State when ordering)
Display accuracy	$\pm 0.5\% + 1d$
effectiveness	$\pm 0.5\%$
<b>Voltage adjustment</b>	
Load adjustment (10-100%)	50mV
	20mV
Ripple and Noise (P-P)	50mV
<b>Current adjustment</b>	
Load adjustment (10-100%)	20mA
Ripple and Noise (P-P)	20mA
Others	
Operating Ambient	温度: 0°C -40°C, 湿度: $\leq 90\%$ RH
Dimension	275*240*160mm/250*400*160mm
Weight	约 5~12kg

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## 3、 FRONT PANEL & OPERATION



**The picture above shows the appearance of K series  
“5A-50A”power supply panel**

**Some models have 3 or 4 digits display, please refer to the  
actual product**

### 3.1 Functions of the controls on front panel

(1) Power Switch.

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(2) 3 digit LED current display.

(3) 3 digit LED voltage display.

(4) CC indicators.

(5) CV indicators.

Note: If the current (calculated by Ohm's law) through the load is lower than the preset current value of the power supply, CV indicator lights, the power supply is working in Constant Voltage status. Otherwise, CC indicator lights, the power supply is in Constant Current status. And the actual current though the load is limited to the preset current value.

(6) Current rough adjustment knob.

(7) Current fine tuning knob.

(8) Voltage rough adjustment knob.

(9) Voltage fine tuning adjustment knob.

(10) Negative output terminals.

(11) Positive output terminal.

(12) Ground terminal

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## **3.2 Operation**

### **1. Voltage Setting:**

Adjust voltage knob to get desired voltage.

### **2. Current Setting:**

Turn current control knob CCW to get a small value of current, short cut output port, adjust current knob to get a desired value.

## **4. ACCESSORIES & MAINTENANCE**

### **4.1 Packing List**

Power Cord	1pc
User's Manual	1pc
Fuse	1pc(hide inside socket)



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## 4.2 CAUTION

- 1、 If there is problem with the digital display and CV indicator does not light after power on, the fuse probably was broken, or power cable is poor contact and other fault, Power off and disconnect the power cord, check whether the power cord and the socket is good contact, or whether the fuse is broken (change the fuse if necessary).
- 2、 When working in Constant Voltage state, if output voltage lower than what was preset and CC indicator lights, in order to protect current, the instrument automatically turn to Constant Current state. You must check the load or increase the output current according to load.
- 3、 When working in Constant Voltage state, if output current lower than what was preset and CV indicator lights, in order to protect open-circuit voltage, the instrument automatically turn to Constant Voltage state. You must check the load or increase the output voltage according to use status.
- 4、 When the instrument is unstable in Constant Voltage state, Probably the AC input voltage is under 90% of the rated value. Please check whether the power supply voltage is within the rated. If the problem is not caused by the line voltage, contact your nearest dealer.