

# ***USER'S MANUAL***



**DC REGULATED POWER SUPPLY**



## DC POWER SUPPLY

### BRIEF INTRODUCTION:

The HY1500D and HY1800D series variable DC power supply are very stable, regulated DC power supplies allowing continuous coarse & fine adjustment of both the output voltage and output current levels. And they have 2sets of 4digits LED displays.

### MODELS:

MODEL	HY1502D	HY2402	HY1503D	HY1802D	HY1803D
REGULAR OUTPUT VOLTAGE	0~15V	0~24V	0~15V	0~18V	0~18V
REGULAR OUTPUT CURRENT	0~2A	0~2A	0~3A	0~2A	0~3A

## 1. TECHNICAL PARAMETERS

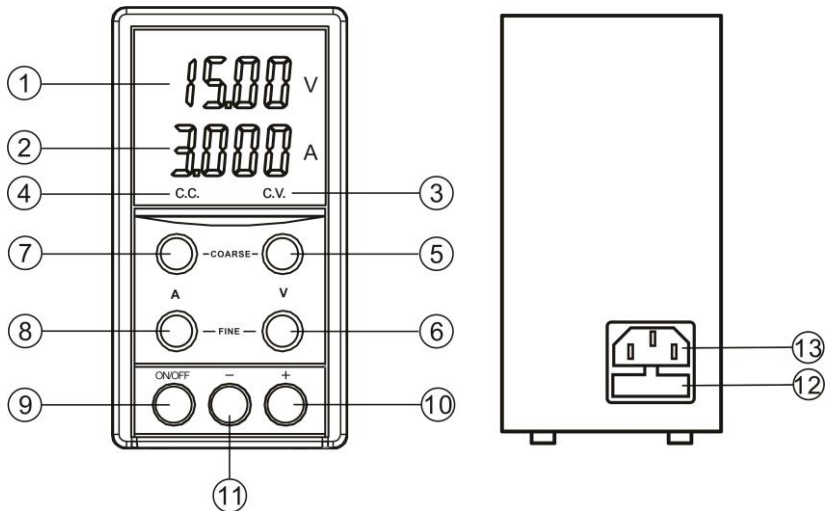
- 1.1 Input voltage : 104~127V AC (60Hz), 207~253V AC (50Hz)
- 1.2 Line regulation:  $CV \leq 0.01\% + 1\text{mV}$        $CC \leq 0.2\% + 1\text{mA}$
- 1.3 Load regulation:  $CV \leq 0.01\% + 3\text{mV}$        $CC \leq 0.2\% + 3\text{mA}$
- 1.4 Ripple and noise:  $CV \leq 0.5\text{mVr.m.s}$        $CC \leq 3\text{mAr.m.s}$
- 1.5 Protection: constant current and short-circuit protection
- 1.6 Voltage indication accuracy:  $\text{LED} \pm 0.5\% + 5\text{digits}$
- 1.7 Current indication accuracy:  $\text{LED} \pm 0.5\% + 5\text{digits}$
- 1.8 Environment:  $0 \sim +40^{\circ}\text{C}$  relative humidity:  $< 90\%$

## **2. OPERATION**

### 2.1 Front panel controls.

- (1) Voltage indication.
- (2) Current indication
- (3) Constant Voltage mode indicate light
- (4) Limit Current mode indicate light
- (5) Coarse adjustment of output voltage.
- (6) Fine adjustment of output voltage.
- (7) Coarse adjustment of limited current.
- (8) Fine adjustment of limited current
- (9) Power ON/OFF switch
- (10) Positive output terminal.
- (11) Negative output terminal.
- (12) Hidden fuse set.

(13)AC input socket( include fuse)



## 2.2 OPERATING PROCEDURE

2.2.1 For constant voltage mode adjust controls 7&8 clockwise to the maximum position. Switch on the power ON/OFF switch 9 and adjust controls 5&6 to set the desired output voltage. Connect the load to the output terminals 10 & 11.

2.2.2 For constant current mode adjust controls 5&6 clockwise to an appropriate position or the maximum position. Adjust controls 7&8 anti-clockwise to the minimum position. Switch on the power ON/OFF switch 9 and connect the load to the output terminals 10 & 11. Adjust controls 7&8 to set the desired output current.

2.2.3 For restricted current protection mode switch on the power ON/OFF switch 9, adjust controls 7&8 anti-clockwise to the minimum position, adjust

controls 5&6 clockwise to set the desired output voltage level and then connect the load to the output terminals 10 & 11 Adjust controls 7&8 clockwise to set the output current at the desired level for restricted current protection.



### **3. ATTENTION:**

3.1 In the event of a short circuit at the output the current will limit at the value set by the current controls, however the unit should be turned off and the short circuit removed before continuing use.

3.2 The mains power must be switched off before servicing and servicing should be referred to a qualified person.

3.3 The unit should be stored in a dry and well ventilated place and the power cord removed if storing for long periods.

#### **4. ACCESSORIES**

4.1 Power cord-----one piece

4.2 Instruction manual-----one piece