

USER'S MANUAL



DC REGULATED POWER SUPPLY



DC POWER SUPPLY

BRIEF INTRODUCTION:

The HYXXXXE series Switching DC power supply are very stable, DC power supplies allowing continuous adjustment of both the output voltage and output current levels.

MODELS:

MODEL	HY3010E	HY3020E	HY3030E	HY3050E	HY5005E	HY5010E	HY5020E	HY10010E
Regulated Output Voltage	0~30V	0~30V	0~30V	0~30V	0~50V	0~50V	0~50V	0~100V
Regulated Output Current	0~10A	0~20A	0~30A	0~50A	0~5A	0~10A	0~20A	0~10A
Display	Double LED	Double LED	Double LED	Double LED	Double LED	Double LED	Double LED	Double LED
Ripple and Noises	0.5mVrms	1.0mVrms	3.0mVrms	3.0mVrms	0.5mVrms	1.0mVrms	3.0mVrms	10mVrms

1 TECHNICAL PARAMETER

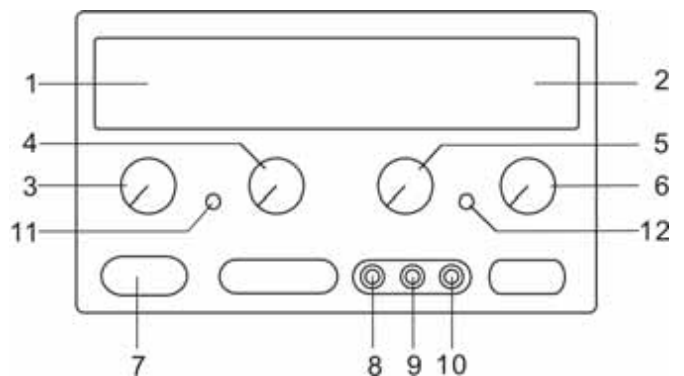
1.1 Input voltage : 104~127V AC (60Hz), 207~253V AC (50Hz)

- 1.2 Line regulation : CV 0.02%+3mV CC 0.5%+3mA
- 1.3 Load regulation : CV 0.02%+10mV(I ≤ 6A) CC 0.5%+10mA(I ≤ 6A)
- CV 0.1%+5mV(I > 6A) CC 0.5%+20mA(I > 6A)
- 1.4 Protection : constant current and short-circuit protection
- 1.5 Voltage indication accuracy : LED ± 1%+2digits, analogue display 2.5%
- 1.6 Current indication accuracy : LED ± 2%+2digits, analogue display 2.5%
- 1.7 Environment : 0 ~+40 °C relative humidity : <90%

2 OPERATION

2.1 Front panel controls.

- (1) Current indication.
- (2) Voltage. Indication.
- (3) Fine adjustment of current
- (4) Coarse adjustment of current.
- (5) Fine adjustment of output voltage.
- (6) Coarse adjustment of output voltage.
- (7) Power ON/OFF switch
- (8) Negative output terminal.
- (9) Ground connection.
- (10) Positive output terminal



- (11) Constant current mode indicator
- (12) Constant voltage mode indicator

2.2 OPERATING PROCEDURE

2.2.1 For constant voltage mode adjust controls 3 & 4 clockwise to the maximum position. Switch on the power ON/OFF switch 7 and adjust controls 5 & 6 to set the desired output voltage. Connect the load to the output terminals 8 & 10.

2.2.2 For constant current mode adjust controls 5 & 6 clockwise to the maximum position. Adjust controls 3 & 4 anti-clockwise to the minimum position. Switch on the power ON/OFF switch 7 and connect the load to the output terminals 8 & 10. Adjust controls 3 & 4 to set the desired output current.

2.2.3 For restricted current protection mode switch on the power ON/OFF switch 7, adjust controls 3 & 4 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 8 & 10. Adjust controls 3 & 4 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