High-precision DC voltage current regulator

INSTRUCTION MANUAL

305D/303D/302D

English

Statement: The company reserves the right to improve and upgrade products, product specifications and design are subject to change without notice.



Thank you for choosing this type of DC power supply. Please read the user guide thoroughly before using, and keep it in a safe place for future reference.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions are required to always be followed, including the following:

Read all instructions before using DANGER - To reduce the risk of electric shock:

- 1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- 2. Children shall not play with the appliance.
- 3. Cleaning and user maintenance shall not be made by children without supervision.
- 4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 5. Do not leave the appliance unattended when it is switched on.
- 6. High voltage in machine, amateurs do not dismantle machine.

Voltage stabilization					
Output voltage	0 to the nominal value adjustable continuously				
Voltage stability	≤0.01%+2mV	Load stability	≤0.01%+2mV		
Recovery time	≤100uS				
Ripple noise	≤1mVREMS (Effective value)				
Temperature coefficient	≤200PPM/℃				
Current stabilization					
Output current	0 to the nominal value adjustable continuously				
Current stability	≤0.1%+3mA	Load stability	≤0.02%+3mA		
Ripple noise	2mARMS (Effective value)				

III. Technical Parameters

PS-302D	PS-303D	PS-305D
0~30V	0~30V	0~30V
0~2A	0~3A	0~5A
PS series of the LED three digital tube		
Digital display of 1% \pm 1 characters		
YH-302D	YH-303D	YH-305D
0~30V	0~30V	0~30V
0~2A/0~999mA	0~3A/0~999mA	0~5A/0~999mA
YH series of the LED three digital tube		
Digital display of 1% \pm 1 characters		
PSN-302D	PSN-303D	PSN-305D
0~30V	0~30V	0~30V
0~2A	0~3A	0~5A
PSN series of the LED four digital tube		
Digital display of 1% \pm 1 characters		
	PS-302D 0~30V 0~2A PS series Digital di YH-302D 0~30V 0~2A/0~999mA YH series Digital di PSN-302D 0~30V 0~30V PSN-302D 0~2A 0~2A 0~2A 0 0 Digital di D 0 <td< td=""><td>PS-302D PS-303D 0~30V 0~30V 0~2A 0~3A PS series of the LED three d 0 Digital display of 1% ±1 ch 1% ±1 ch YH-302D YH-303D 0~30V 0~30V 0~2A/0~999mA 0~3A/0~999mA 0~2A/0~999mA 0~3A/0~999mA PSN-302D PSN-303D 0~30V 0~30V 0~2A 0~3A</td></td<>	PS-302D PS-303D 0~30V 0~30V 0~2A 0~3A PS series of the LED three d 0 Digital display of 1% ±1 ch 1% ±1 ch YH-302D YH-303D 0~30V 0~30V 0~2A/0~999mA 0~3A/0~999mA 0~2A/0~999mA 0~3A/0~999mA PSN-302D PSN-303D 0~30V 0~30V 0~2A 0~3A

I. Feature

PS series DC power supply designed for scientific research, product development, laboratories, universities and laptop computer repair, electronic production. Voltage /Current in a nominal value adjustable continuously. It has high precision, high reliability, and has improved the overload protection circuit, for the industry the ideal choice.

II. Parameter specification

Rated operating condition					
Power voltage	AC 110V/220V $\pm 10\%$ (Switch select)	Frequency	50Hz/60Hz		
Work environment	-10℃~40℃	Relative humidity	< 90%		
Storage environment	-10℃~40℃	Relative humidity	< 80%		

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IV. Panel Control Description

The three-figure display front panel description







- (1) Current Display
- (2) Steady flow coarse
- (4) The steady flow status indicator

- (10) Regulators status indicator
- (11) ground terminal

Machine rear panel description



(3) The steady flow fine

- (5) Power Switch
- (6) Voltage Display
- (7) A / mA converter
- (8) Regulators fine
- (9) Regulators coarse

- (12) The positive terminal of the output
- (13) output negative terminal

V. Instructions for use

Attention

- 1. AC/AC input voltage: Select voltage must be identical (AC, 110V/220V).
- 2. Dissipate heat: Radiator located at rear, should leave enough space to facilitate heat dissipation, PS series machine equipped with temperature control switch, when the internal temperature \geq 45 °C, the fan will rotate to dissipate heat automatically, not at ambient temperature over 45℃ places.
- 3. Output overshoot voltage limit: When the switch power supply, between the output terminal voltage should not exceed a predetermined value.
- 4. Power supply are not allow at full load state for long time. Control your utilization rate of less than 60%, or they may cause human early failure. When place order, you should be based on the actual operating current includes an allowance.

Operation

- 1. Connecting to the power source, the machine will be input selection voltage to and use the same voltage (AC110V/220V).
- 2. Turn on the power switch, indicator light (current coarse and fine adjustment knob does not 0), current and voltage display shows the "000", a voltage display the output voltage.
- 3. Voltage regulation and the knob to the desired output voltage value(current coarse and fine adjustment knob for 0), output voltage range:0-30V DC.
- 4. Connection to an external load to the "+". "-" output terminals, power began to load power.
- 5. When used in a higher place, output "+" or "-" posts must have a reliable connection with GND terminal, it can reduce the output ripple of power.

Current stabilization settings

- 1. At first, fine and coarse adjustment voltage to 2-5V arbitrary values (current coarse and fine adjustment knob is not 0).
- 2. And then adjust coarse and fine knob to 0 (anti-clockwise end).
- Wires to output terminals "+" and "-". 3.
- 4 Then clockwise, coarse and fine adjust the required voltage can be used.

Voltage/current stabilization characteristic

The power of working property called stabilized voltage and current automatic conversion type, it can load changes in voltage regulator and the steady flow state between successive conversion. The voltage regulator and the steady flow state transition between the intersection known as the transfer point.

For example:

If the load operating the power supply at the stable state, the output voltage constant. That is to say the output voltage of the load not follow up which varies, the output current will change with the size of the load. The load increases (resistance becomes small voltage drop). Voltage and current conversion is composed of a panel of LED instructions, stabilized voltage CV indicator light, steady when the CC indicator light.

Product certification							
Model NO.							
Product ID							
Examine Upon examination products meet technical standards			chnical QC PASS				
Sales Date							
Date of manufacture	•						
	Warranty Car	d					
 Thank you for choosing this type of products, please read the following terms before using: From purchasing date within 7 days, under normal use(Artificial damage), new package, not be disassemble and repaired ,enjoy replacement service. From purchasing date within one year, under normal use, if there are quality problem, not be disassemble and repaired ,enjoy free repair service. For more than warranty, we provide a lifetime warranty service, free of labor costs, charge only spare parts costs. Failure to present warranty card during warranty period, the company will not be a free service. Users need warranty service, please contact your original sales unit. When users need warranty service, please provide warranty card and purchase invoice, or receipt of the certificate of the company seal. Warranty does not include transportation costs and provide on-site service. 							
Maintenance records							
NO. Date for repair	Cause	Fix date	Repairer				