REGULATED DC POWER SUPPLY

OPERATION MANUAL

ACCESSORIES:

Power Cord	1pc
User's Manual	1pc
Fuse	1pc

CAUTION:

- If there is no problem with the line power and CV indicator dose not light after power on, the fuse probably was broken. Power off and disconnect the power cord, and change the fuse.
- 2、When working in Constant Voltage state, if output voltage lower than what was preset and CC indicator lights, the instrument automatically turn to Constant Current state. You must check the load or increase the output current.
- 3、When working in Constant Current state, if output current lower than what was preset and CV indicator lights, the instrument automatically turn to Constant Voltage state. You must check the load or increase the output voltage.
- 4. When the instrument is unstable in Constant Voltage state, Probably the line voltage is under 90% of the rated value. If the problem is not caused by the line voltage, contact your nearest dealer.

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INTRODUCTION

300 series power supply is a newly developed model with high stability and accuracy. It has over-current, over-voltage, over-heat functions(overall output protection). Its unique block-like structure makes it easily to be extended from single channel to multi-channel. It is an ideal instrument for R&D departments, colleges and factories.

Operation

Connection of output ports:

Port No.2 and No.3 is in floating mode, you can get different polarity voltage by connecting positive or negative terminal on both sides to the ground-terminal in the middle. Port No.1 is a fixed output. Its negative terminal had been grounded internally.

Voltage Setting:

Adjust voltage knob to get desired voltage.

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.

Serial Usage:

Select series mode with Buttons (5), Use "+"end of port no.3 and "-" end of port no.2 as output terminal. Output voltage is the summation of channel A and channel B.

Parallel Usage:

Select series mode with Buttons (5), Use either one of output terminals of two channels, a doubled current can be acquired.

Functions of the controls on front panel

(1)(2) 3 digit LED display of voltage and current.

- (3)(4) CV and CC indicators. 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.
- (5) Independent/Series/Parallel Controls. When the power supply is set in series mode, two channels are connected serially. Voltage of Channel A will follow that of Channel B. Then a pair of same value and different polarity voltage is acquired, and you can get a doubled voltage from positive port of CH-B and negative port of CH-A. When the power supply is set in parallel mode, two channels are connected parallel. And you can get a doubled current from either port of two channels.
- (6) Power switch.
- (7)(8) Voltage adjustment. If in tracking state, the switches of channel A are not available.
- (9)(10) Current adjustment, to set constant current value.
- (11) Output port No.1, fixed 5V/3A output.
- (12) Output port No.2, it is controlled by switch (7) and (9).
- (13) Output port No.3, it is controlled by switch (8) and (10).

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MODELS

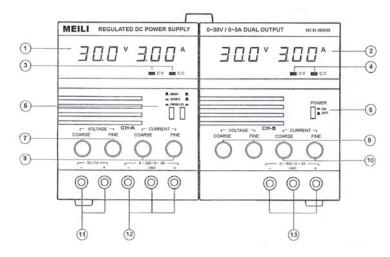
	Voltage	Current			Fixed	Dual	Circula		
Model	0~30V	0~2 A	0~3A	0~5A	0~10A	0~20A	output	output	Single output
302A	•	•							•
303A	•		•						•
305A	•			•					•
3010A	•				•				•
3020A	•					•			•
302B	•	•					•		•
302B	•		•				•		•
302B	•			•			•		•
302DII	•	•					•	•	
303DII	•		•				•	•	
305DII	•			•			•	•	
3010DII	•				•		•	•	

Input Voltage:	240VAC±10%50 / 60HZ
Rated Output Power:	60W X 2 = 120w(2A)
	90W X 2 =180w(3A)
	150W X 2 =300w(5A)
Operating Ambient:	Temperature: 0°C-40°C
	Humidity: ≤90%RH
Storage Ambient:	Temperature: . 20°C-80°C
	Humidity: ≤80%RH

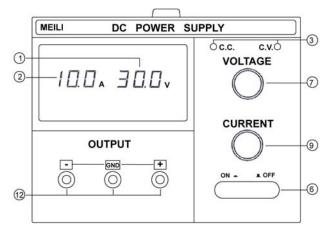
SPECIFICATIONS

Model:	Dual output models	Single output models			
Variable Output:	ariable Output:				
Output Voltage:	0~30V continuously adjustable				
Output Current:	0~ specified value continuously adjustable				
Source Regulation:	≤0.01% +3mV				
Load Regulation:	≤0.01% +3mV				
Ripple & Noise:	$\leq 1 mVrms$				
Tracing Error:	0.5% +10mV				
Display:	4 sets of 3 digit LED	2 sets of 3 digit LED			
Display Error:	≤0.5% + 1digit				
Fixed Output					
Output Voltage:	5V, 3.3(only for models of single channel)				
Output Current:	3A				
Source Regulation:	≤5mV				
Load Regulation:	≤15mV				
Ripple & Noise:	≤2mVrms				
Others:					
Line Power Supply	240V±10%				
Dimension:	240X150X270(mm)	120X150X270(mm)			
Weight:	Approx. 10kg	Approx. 5kg			

FRONT PANEL & OPERATION



For 2A, 3A and 5A models



For 10A, 20A models