



MPD-3303C/MPD-3305C Multi-channel Programmable DC Power Supply

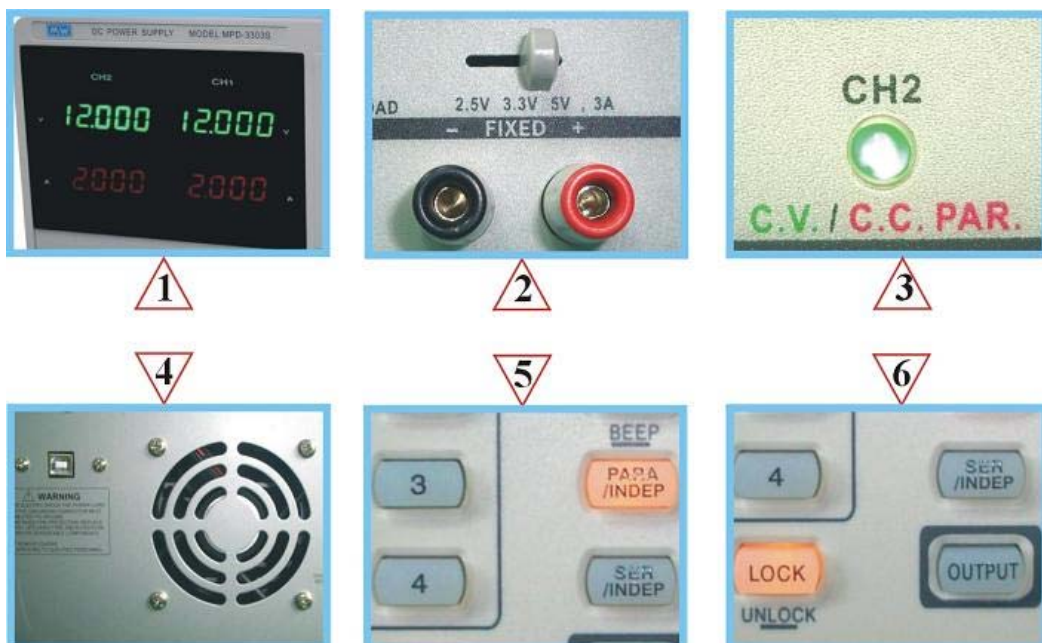


Mywave Instrument Co., Ltd.

◆ Main Features

- 3 independent output: 30V/3A (5A) ×2, 2.5V/3.3V/5V/3A×1 (fixed)
- 4 LED display: 3 digits voltage, 3 digits current
- Minimum resolution: 100mV, 10mA
- Over load and reverse polarity protections
- Digital panel control (rotary encoder switch, rubber key with indicator)
- User-friendly operation, coarse/fine control for voltage and current
- 4 sets of panel setup Save/Recall
- Key-Lock, warning buzzer, output ON/OFF
- Tracking series and parallel mode
- Software calibration
- Smart cooling fan achieving low noise
- Compact design

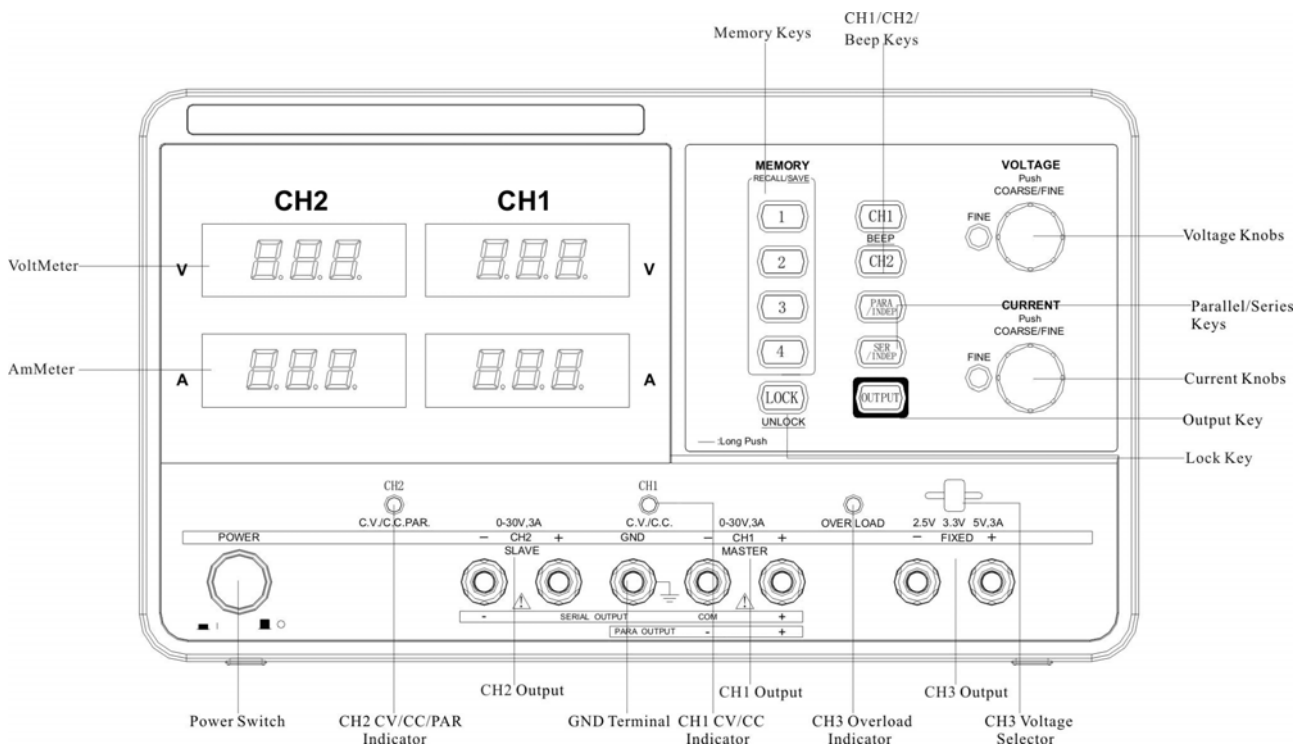
◆ Interface Features



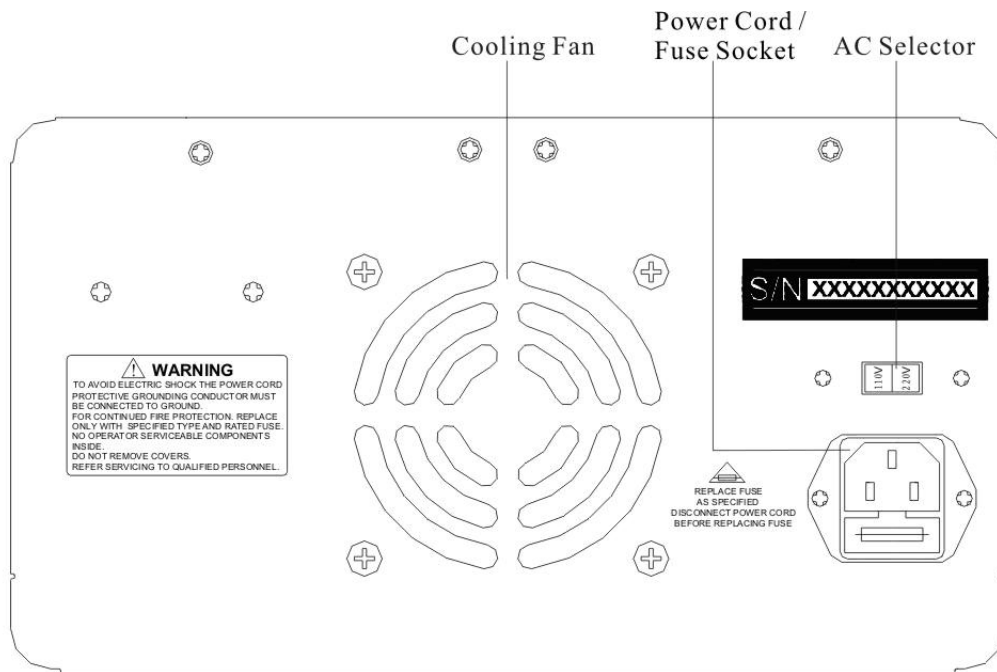
1. Bright LED display shows settings or actual level of output.
2. The independent CH3 output offers three commonly used voltage settings: 2.5, 3.3V, 5V.
3. C.V. / C.C. modes are clearly indicated in different colors.
4. Smart cooling fan control offers a well-balanced cooling mechanism, ensuring quiet operation.
5. The tracking series and parallel mod can be selected with a single touch.
6. Indicators embedded in the keys provide an instant view of the power supply status; the Key Lock feature prevents improper operation.

◆ Front Panel and Rear Panel

Front Panel



Rear Panel



◆ Technical Specifications

Model	MPD-3303C		MPD-3305C	
	CH1&CH2	CH3	CH1&CH2	CH3
Output voltage	0~30V×2	2.5V/3.3V/5V×1	0~30V×2	2.5V/3.3V/5V×1
Output current	0~3A×2	3A×1(fixed)	0~5A×2	3A×1(fixed)
Constant Voltage Operation				
Line regulation	≤0.01%+3mV			
Load regulation	≤0.01%+3mV (I≤3A) / ≤0.02%+5mV (I>3A)			
Recovery time	≤100us (50% load change, minimum load 0.5A)			
Ripple & Noise	≤1mV rms (I≤3A) (5Hz~1MHz) / ≤2mV rms (I>3A) (5Hz~1MHz)			
Temp. co-efficient	≤300ppm/°C			
Output range	0 to rating voltage continuously adjustable			
Constant Current Operation				
Line regulation	≤0.2%+3mA			
Load regulation	≤0.2%+3mA (I≤3A) / ≤0.2%+5mA (I>3A)			
Ripple & Noise	≤3mA rms (I≤3A) / ≤6mA rms (I>3A)			
Output range	0 to rating current continuously adjustable			
Tracking Parallel Operation				
Line regulation	≤0.01%+3mV			
Load regulation	≤0.01%+5mV (I≤3A) / ≤0.02%+10mV (I>3A)			
Tracking Series Operation				
Line regulation	≤0.01%+5mV≤0.01%+5mV			
Load regulation	≤300mV			

Tracking error	$\leq 0.5\% + 100\text{mV}$ of the master (No load. With load, add load regulation $\leq 300\text{mV}$)	
Display		
Ammeter	3.20A full scale, 3 digits 0.5-inch LED display	5.10A full scale, 3 digits 0.5-inch LED display
Voltmeter	32.0V full scale, 3 digits 0.5-inch LED display	
Voltmeter resolution	100mV	
Ammeter resolution	10mA	
Programming accuracy (25 \pm 5 $^{\circ}$ C)	$\pm(0.5\%$ of reading + 2digits) (0~30V) , $\pm(0.5\%$ of reading + 2digits) (I \leq 3A) $\pm(0.5\%$ of reading + 5digits) (I>3A)	
Readback accuracy (25 \pm 5 $^{\circ}$ C)	$\pm(0.5\%$ of reading + 2digits) (0~30V) , $\pm(0.5\%$ of reading + 3digits) (I \leq 3A) $\pm(0.5\%$ of reading + 5digits) (I>3A)	
CH3 Specifications		
Output voltage	2.5V, 3.3V, 5V, $\pm 8\%$	
Output current	3A	
Line regulation	$\leq 25\text{mV}$	
Load regulation	$\leq 25\text{mV}$	
Ripple & Noise	$\leq 2\text{mV rms}$	
Protection	Over load and reverse polarity protections	
Key lock	Yes	
USB interface	No	
Memory Save/Recall	4 sets of panel setup and 1 set of the memory status before closed	
Insulation	Between base and output terminal $\geq 20\text{M}\Omega/500\text{VDC}$ Between base and power cord $\geq 30\text{M}\Omega/500\text{VDC}$	
Operation environment	Indoor use Altitude: $\leq 2000\text{m}$ Ambient temperature: 0~40 $^{\circ}$ C Relative humidity: $\leq 80\%$ Installation category: II Pollution degree: 2	
Storage environment	Ambient temperature: -10 $^{\circ}$ C~70 $^{\circ}$ C Relative humidity: $\leq 70\%$	
Power source	AC 110V/220V $\pm 10\%$, 50/60Hz	
Accessories	Operation manual $\times 1$, Power cord $\times 1$	
Dimension	310(D) \times 250(W) \times 150(H)mm	
Weight	7.5kg	10kg

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