

Programmable Linear Bench Top DC Power Supplies

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**RoHS
Compliant**



Description

This series DC power supply with three independent outputs is a cost-effective programmable DC power supply with excellent performance, reliable output and clear interface.

The instrument has constant voltage (CV) and constant current (CC) modes, short-circuit and over-voltage protection functions, which can perfectly meet various test requirements.

Features

- Maximum power up to 373W
- Four channel independent output: CH1/CH2: 0~30V/5A, CH3: 0~6V/3A, CH4: 5V/ 2A
- Multiple protection: OCP/OVP/OTP
- Excellent load regulation and line regulation
- Ultra low output ripple and noise
- Support one key serial and parallel output function
- The 4.3-inch TFT display can display three channels and multiple parameters at the same time
- List / delayer function to control voltage and current output as required
- External trigger function to realize industrial automation control
- Provide USB host, USB device, LAN, RS232, digital I/O and other interfaces
- With waveform display function, real-time and dynamic display of output voltage / current / power waveform
- Intelligent speed control of fan can effectively reduce fan noise during operation
- Support 10 groups of file storage and transfer out, and support USB flash disk reading and writing
- High precision display of five-digit voltage / four-digit current, with resolutions of 10mV / 1mA and 1mV / 1mA
- Keyboard lock function to prevent misoperation
- Support SCPI remote command control

Specifications

Channel	Channel	4
Output Rating	Voltage	CH1&CH2: 0-32V
		CH3: 0~6V
		CH4: 5V (USB Output)
	Current	CH1&CH2: 0~5A
CH3: 0~3A		
CH4: 2A (USB Output)		
	Power	348W
CV mode	Regulation	Line Regulation: <0.01%+2mV
		Load Regulation: <0.01%+2mV
	Regulation	<350μVrms/ 2mVpp(5Hz~1MHz)
	Reaction time	≤50μs (50% load variation, minimum load 0.5A)
	Command processing time	<100ms

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CC mode	Regulation	Line Regulation: $\leq 0.01\% + 250\mu\text{A}$
		Line Regulation: $\leq 0.01\% + 250\mu\text{A}$
	Ripple current	$\leq 2\text{mArms}$
Tracking mode	parallel connection	Line Regulation: $\leq 0.01\% + 2\text{mV}$
		Load Regulation: $\leq 0.01\% + 2\text{mV}$
	series connection	Line Regulation: $\leq 0.01\% + 3\text{mV}$
		Load Regulation: $< 300\text{mV}$
	Tracking error	$\leq 0.5\% + 10\text{mV}$ (10-30V No load)
$\leq 0.5\% + 30\text{mV}$ (0-9.99V No load)		
Access load $< 300\text{mA}$		
Measure	Display	Voltage full scale, A-digit display: 4.3inchLCD
		Current full scale, A-digit display; 4.3 inchLCD
	Programming resolution	Voltage: 10mV
		Current: 1mA
	Readback resolution	Voltage: 10mV
		Current: 1mA
Programming accuracy (25 \pm 5 $^{\circ}$ C)	Voltage: $\pm (0.3\% + 20\text{mV})$	
	Current: $\pm (0.2\% + 5\text{mA})$	
Readback accuracy (25 \pm 5 $^{\circ}$ C)	Voltage: $\pm (0.1\% + 20\text{mV})$	
	Current: $\pm (0.15\% + 5\text{mA})$	
Voltage programmed speed (1% of the total variation range)	CH1	Rise: full load $< 50\text{ms}$; No load $< 30\text{ms}$
		Fall: full load $< 45\text{ms}$; No load $< 400\text{ms}$
	CH2	Rise: full load $< 50\text{ms}$; No load $< 30\text{ms}$
		Fall: full load $< 45\text{ms}$; No load $< 400\text{ms}$
	CH3	Rise: full load $< 15\text{ms}$; No load $< 13\text{ms}$
		Fall: full load $< 22\text{ms}$; No load $< 100\text{ms}$
Temperature coefficient per C $^{\circ}$ (output percentage + offset)	CH1	Voltage: 0.01%+5mV
		Current: 0.01%+2mA
	CH2	Voltage: 0.01%+5mV
		Current: 0.01%+2mA
	CH3	Voltage: 0.01%+2mV
		Current: 0.01%+2mA
Channel 4 (USB output)	Output voltage	5V $\pm 0.25\text{V}$
	Output current	2A
Input	Voltage	AC100V/120V/220V/230V $\pm 10\%$
	Frequency	50/60Hz
	Power	MAX 600W
	Fuse	AC220V : T4AL250V
ACT10V : T8AL250V		

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Environment	Operating temperature	0°C to 40°C
	Operating humidity	20%~80% (non-condensing)
	Storage temperature	-10°C to 60°C
	Altitude	≤2000m
	Pollution degree	2
Size and weight	Size	355mm × 240mm × 168mm
	Weight	10.2kg
Warranty	03 years	

Part Number Table

Description	Part Number
Programmable Linear Bench Top DC Power Supplies, 4 CH, EU/UK	MP711001

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