CERNEXWAVE

3-Channels Programmable Regulated DC Power Supply

FEATURES:

- Independent/Series/Parallel
- Constant Voltage/constant Current
- Automatic Tracking Mode
- Dynamic Load

DESCRIPTION:

CPPS3303C

CERNEXWAVE's CPPS3303C is a portable, adjustable, multifunctional power supply. It has three independent outputs, two adjustable voltage values and a fixed set of selectable voltage values of 2.5V, 3.3V and 5V.

SPECIFICATIONS:

Output rating	CH1/CH2 Independent CH1/CH2 Series CH1/CH2 parallel Ch3	0～30V/0～3A or 5A 0～60V/0～3A or 5A 0～30V/0～6A or 10A 2.5V/3.3V/5.0V,0～3A	
Voltage change rate	Linear load Ripple and noise Recovery time Temperature coefficient	≤0.1%+3mV ≤0.01%+3mV(I≤3A) ≤1m Vrms(I≤3A) (5Hz～1MHz) ≤100us(50% load change,minimum load 0 5A) ≤300ppm/℃	≤0.02%+5mV(I≤3A) ≤2m Vrms(I>3A) (5Hz 1MHz)
Current rate of change	Linear load Ripple and noise	≤0.2%+3mA ≤0.2%+3mA(I≤3A) ≤3m Arms(I≤3A)	≤0.2%+5mA(I>3A) ≤6m Arms(I≤3A)
CH3 Specifications	Rate of change Ripple and noise	Line:≤25mV ≤2m Vrms	Load:≤25mV
A tracking operation	Tracking error	≤0.5%+10mV of Master(NO Load,MPD-3303S) ≤0.5%+50mV of Master(NO Load,MPD-3303/5,MPD-3303D/5D) ≤0.5%+100mV of Master(NO Load,MPD-3303C/5C) (Loadingtoload effect≤300mV)	
	Parallel rate of change	Line:≤0.01%+3mV Load:≤0.01%+5mV(I≤3A) Load:≤0.02%+10mV(I≤3A)	
	The series change rate	Line:≤0.01%+5mV	Load:≤300mV

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Display resolution	CPPS3303/5	Voltage:10mV(0～9.99V) Voltage:100mV(10～30V)	Current:10mA
Accuracy	Ammeter CPPS3303/C/D CPPS3305/C/D	3.20A full scale,3 digits 0.5" LED display	
	CPPS3303S	3.200A full scale,4 digits 0.4" LED display	
	Voltmeter CPPS3303/C/D CPPS3305/C/D	32.0V full scale,3 digits 0.5"LED display	
	CPPS3303S	32.000V full scale,5 digits 0.4"LED display	
	Adjustment accuracy CPPS3303/C/D	±(0.2% of reading+3digits)(0～9.99V) ±(0.5% of reading+2digits)(10～30V) ±(0.5% of reading+2digits)(0～3A) ±(0.5% of reading+5digits)(>3A)	
	CPPS3303/C/D CPPS3305/C/D	±(0.5% of reading+2digits)(0～30V) ±(0.5% of reading+2digits)(0～3A) ±(0.5% of reading+5digits)(>3A)	
	CPPS3303S	±(0.03%of reading+10mV)(0～30V)	±(0.3% of reading+10mV)(0～3A)
	Reading precision	±(0.2% of reading+3digits)(0～9.99V) ±(0.5% of reading+2digits)(10～30V)	±(0.5% of reading+3digits)(0～3A) ±(0.5% of reading+5digits)(>3A)
The insulation degree	The base and the terminal The base and the AC power line	20MΩ or above (DC 500V) 30MΩ or above (DC 500V)	
Operating environment	Indooruseelevation:≤2000m Environmental temperature:0～40℃ Relative humidity:≤80%	Installation level: Degree of pollution 2	
Torage environment	Ambient temperature-10～70℃	Relative temperature≤70%	
Power input	AC 110V/220V±10%,50/60Hz		
Attachment	User manual 1, power line 1, CD CD (3303D/3305D/3303S)		
Option	USBLine(3303D/3305D/3303S)		
Volume	310(D)X250(W)X150(H)mm		
Weight	About 7.5kg(3303/3303C/3303D/3303S) About	About 10kg(3305/3305C/3305D)	

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FEATURES:

- 3-channel Programmable
- LCD Display
- One Second Timer Auto Step
- 90 Settings Memories
- Economically Priced
- High Resolution

CPPS3203T

DESCRIPTION:

CERNEXWAVE's CPPS3203T is a high performance programmable linear power supply. It has a built-in protection features such as OVP, OCP to protect the unit from the un-expected voltage fluctuations. It has LCD display which indicates parameters from 3 channels simultaneously. There is a built-in buzzer which gives a warning of error settings.

SPECIFICATIONS:

Output rating	CH1/CH2 Independent CH1/CH2 Series CH1/CH2 parallel Ch3	0～30V/0～3A or 5A 0～60V/0～3A or 5A 0～30V/0～6A or 10A 2.5V/3.3V/5.0V,0～3A	
Voltage change rate	Linear load Ripple and noise Recovery time Temperature coefficient	≤0.1%+3mV ≤0.01%+3mV(I≤3A) ≤1m Vrms(I≤3A) (5Hz～1MHz) ≤100us(50% load change,minimum load 0 5A) ≤300ppm/℃	≤0.02%+5mV(I≤3A) ≤2m Vrms(I>3A) (5Hz 1MHz)
Current rate of change	Linear load Ripple and noise	≤0.2%+3mA ≤0.2%+3mA(I≤3A) ≤3m Arms(I≤3A)	≤0.2%+5mA(I>3A) ≤6m Arms(I≤3A)
CH3 Specifications	Rate of change Ripple and noise	Line:≤25mV ≤2m Vrms	Load:≤25mV
A tracking operation	Tracking error	≤0.5%+10mV of Master(NO Load,MPD-3303S) ≤0.5%+50mV of Master(NO Load,MPD-3303/5,MPD-3303D/5D) ≤0.5%+100mV of Master(NO Load,MPD-3303C/5C) (Loadingtoload effect≤300mV)	
	Parallel rate of change	Line:≤0.01%+3mV Load:≤0.01%+5mV(I≤3A) Load:≤0.02%+10mV(I≤3A)	
	The series change rate	Line:≤0.01%+5mV	Load:≤300mV

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Note: the following indexes are tested after 20 minutes' warming-up.

Specifications		CPPS3203T-3S	CPPS3203T-2S	CPPS3205T-3S	CPPS3205T-2S
Output	Voltage	0~ 32V x 2, 0-6V x1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1	0~ 32V x 2, 0–6V x 1	0~ 32V x 2, 2.5V/ 3.5/ 5Vx1
	Current	0~3A x 3	0~3A x 2 3A x 1	0~5A x 2 0~3A x 1	0~5A x 2 3A x 1
Load Effect	Voltage	≤3mV(≤8mV rated current>3.0A)			
	Current	≤3mA(≤5mA rated current>3.0A)			
Power Effect	Voltage	≤3mV(AC±5%)			
	Current	≤3mA			
Resolution	Voltage	10mV			
	Current	1mA (2mA rated current>3A)			
Set Accuracy (25±5℃)	Voltage	≤0.05%+10 mV(+20 mV rated voltage>36V)			
	Current	≤0.1%+5ma(+10 mA rated current>3.0A)			
Ripple (20Hz-20MHz)	Voltage	Ripple≤1 mVrms			
	Current	≤3mArms(≤5mArms rated current>3.0A)			
Temperature Coefficient (0~40℃)	Voltage	100ppm+3mV			
	Current	100ppm+3mA			
Read back Resolution	Voltage	10 mV			
	Current	1mA(2mA rated current>3.0A)			
Response Time	Voltage rise	10%~90%≤100ms			
	Current fall	90%~10%≤10ms(≥10% rated load)			
Readback Temperature Coefficient	Voltage	≤100ppm+10 mV			
	Current	≤150ppm+10 mA			
Drift	Voltage	≤100ppm+10 mV			
	Current	≤150ppm+10 mA			
Serial synchronous operation	Serial synchronous error	≤0.1%+20 mV			
	Series(Load)	20 mA			
Parallel Synchronous Operation	Set Accuracy	Voltage≤0.05%+20 mV Current≤0.1%+20 mV			
	Load regulation	Voltage≤5mA Current≤6mA			
	Power regulation	Voltage≤3 mV Current≤6mA			
Memory		Store/Recall points 0~90			
Timer	Setting time	1s~9999s			
	Resolution	1s			
	Function	Auto Step running			
Interface		RS 232(standard configuration), USB interface(optional)			
Mechanical Spec.	Dimensions	230 (W) ×140 (H) ×380 (L) mm			
	Weights	10Kg			
Operation Environment		Indoor use, Altitude up to 2000 m			

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