

Promotional program-controlled DC electronic load series



Product Detail

Product Introduction:

CH9711 + Series electronic load is an upgraded product of CH9711. It is built by our company on the basis of extensive user feedback and professional accumulation of electronic load for many years.

The newly designed circuit uses 500kHz high-speed sampling AD and high-speed DA to ensure the measurement speed and accuracy.

The resolution of 0.1mV/0.1mA can more effectively monitor the detailed changes of voltage and current and make it applicable in the testing field.

Wider test results are better, highlighted VFD makes the display clear and intuitive, menu and display content continue the original electronic load series easy to understand and simple operation style, make the use of handy.

Keyboard with operation status indicator, working status at a glance. Complete testing function is very humanized, greatly improving production efficiency.

RS232 interface protocol is fully compatible with the original series of electronic loads, so that system updating is no longer cumbersome.

Main features:

- High-brightness high-visibility vacuum fluorescence VFD display, clear and comprehensive ■ High Display Resolution with Voltage 0.1mV and Current 0.1mA
- Loading, unloading, slowly rising and slowly falling function, effectively reducing the instantaneous impact of power supply
- CR-LED measurement mode, fully simulating the on-load characteristics of LED power supply.
- OCP, OPP measurement function, accurate capture of critical parameters
- The battery test mode can automatically record the discharge time and capacity.
- High-speed dynamic switching time of 0.025mS can effectively investigate the dynamic response of power supply, and has the control of rising and falling edges.
- List test can flexibly combine test mode and time to judge test results.
- Remote voltage measurement function with external start/trigger and HANDLER interface signal output
- Standard cabinet size for ease of shelf mounting

Major Technical Indicators:

Model		CH9711+	CH9712+	CH9711A+	CH9712A+	CH9711B+	CH9712B+
Rated value	Input voltage	0~150V		0~500V		0~120V	
	Input current	0.1mA~30A		0.1mA~15A		0.1mA~60A	
	Input power	150W	300W	150W	300W	150W	300W
	Range	Accuracy	Resolution	Accuracy	Resolution	Accuracy	Resolution
Load accuracy	0-9.9999V	±(0.05%+0.03%FS)	0.1mV	±(0.05%+0.03%FS)	0.1mV	±(0.05%+0.03%FS)	0.1mV
	10.000V-99.999V	±(0.05%+0.03%FS)	1mV	±(0.05%+0.03%FS)	1mV	±(0.05%+0.03%FS)	1mV
	100.00V-500.00V	±(0.05%+0.03%FS)	10mV	±(0.05%+0.03%FS)	10mV	±(0.05%+0.03%FS)	10mV
	0-3A	±(0.05%+0.05%FS)	0.1mA	±(0.05%+0.05%FS)	0.1mA	±(0.05%+0.05%FS)	0.1mA
	0-	±(1mA	±(1mA	±(1mA

	30A/60A	0.05%+0.05%FS)		0.05%+0.05%FS)		0.05%+0.05%FS)	
Rated voltage mode	1.5V-18V	± (0.05%+0.03%FS)	1mV	± (0.05%+0.03%FS)	1mV	± (0.05%+0.03%FS)	1mV
	1.5V-150V/500V	± (0.05%+0.03%FS)	10mV	± (0.05%+0.03%FS)	10mV	± (0.05%+0.03%FS)	10mV
Rated current mode	0-3A	± (0.05%+0.05%FS)	0.1 mA	± (0.05%+0.05%FS)	0.1 mA	± (0.05%+0.05%FS)	0.1 mA
	0-30A/60A	± (0.05%+0.05%FS)	1 mA	± (0.05%+0.05%FS)	1mA	± (0.05%+0.05%FS)	1mA
Resistance mode (When the input voltage and current value is greater than 10% FS)	0.05Ω-5Ω	± (0.2%+0.2%FS)	0.001Ω	± (0.2%+0.2%FS)	0.001Ω	± (0.2%+0.2%FS)	0.001Ω
	0.5Ω-50Ω	± (0.1%+0.1%FS)	0.01Ω	± (0.1%+0.1%FS)	0.01Ω	± (0.1%+0.1%FS)	0.01Ω
	5Ω-500Ω	± (0.1%+0.2%FS)	0.1Ω	± (0.1%+0.1%FS)	0.1Ω	± (0.1%+0.1%FS)	0.1Ω
	500Ω-5KΩ	± (1%+1%FS)	1Ω	± (1%+1%FS)	1Ω	± (1%+1%FS)	1Ω
Fixed Power mode (When the input voltage and current value is greater than 10% FS)	0-50W	± (0.1%+0.1%FS)	1 mW	± (0.1%+0.1%FS)	1 mW	± (0.1%+0.1%FS)	1 mW
	0-150W	± (0.1%+0.15%FS)	10mW	± (0.1%+0.1%FS)	10 mW	± (0.1%+0.1%FS)	10mW
	0-300W	± (0.1%+0.1%FS)	0.1W	± (0.1%+0.1%FS)	0.1 W	± (0.1%+0.1%FS)	0.1 W
Voltage measurement accuracy	0-9.9999V	± (0.05%+0.03%FS)	0.1mV	± (0.05%+0.03%FS)	0.1mV	± (0.05%+0.03%FS)	0.1mV
	10.000-99.999V	± (0.05%+0.03%FS)	1mV	± (0.05%+0.03%FS)	1mV	± (0.05%+0.03%FS)	1mV
	100.00-150.00V/500.00V	± (0.05%+0.03%FS)	10mV	± (0.05%+0.03%FS)	10mV	± (0.05%+0.03%FS)	10mV
Current measurement accuracy	0-9.9999A	± (0.05%+0.05%FS)	0.1 mA	± (0.05%+0.05%FS)	0.1 mA	± (0.05%+0.05%FS)	0.1 mA
	10.000-30.000/60.000A	± (0.05%+0.05%FS)	1 mA	± (0.05%+0.05%FS)	1mA	± (0.05%+0.05%FS)	1mA
Battery test function	Input = 0.8-150V/500V; Max measurement capacity= 999A/H Resolution =0.1mA; Timer range =1~60000sec						
Dynamic test mode	T1&T2(A or B test time): 0.025mS-999S Error<2.5% + 0.01mS						
Protection range	>specified condition 5%						
Impedance in the input terminal	≥200KΩ						
Dimensions	W*H*D 215mm*88mm*335mm						

Weight	150W: 5.5 Kg	300W: 6.5Kg
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	0.5Ω-50Ω	±(0.1%+0.1%FS)	0.01Ω	±(0.1%+0.1%FS)	0.01Ω	±(0.1%+0.1%FS)	0.01Ω
	5Ω-500Ω	±(0.1%+0.1%FS)	0.1Ω	±(0.1%+0.1%FS)	0.1Ω	±(0.1%+0.1%FS)	0.1Ω
	500Ω-5KΩ	±(1%+1%FS)	1Ω	±(1%+1%FS)	1Ω	±(1%+1%FS)	1Ω
Fixed Power mode (When the input voltage and current value is greater than 10% FS)	0-50W	±(0.1%+0.1%FS)	1mW	±(0.1%+0.1%FS)	1mW	±(0.1%+0.1%FS)	1mW
	0-150W	±(0.1%+0.1%FS)	1 0mW	±(0.1%+0.1%FS)	10mW	±(0.1%+0.1%FS)	1 0mW
	0-300W	±(0.1%+0.1%FS)	0.1W	±(0.1%+0.1%FS)	0.1 W	±(0.1%+0.1%FS)	0.1 W
Voltage measurement accuracy	0-9.9999V	±(0.05%+0.03%FS)	0.1mV	±(0.05%+0.03%FS)	0.1mV	±(0.05%+0.03%FS)	0.1mV
	10.000-99.999V	±(0.05%+0.03%FS)	1mV	±(0.05%+0.03%FS)	1mV	±(0.05%+0.03%FS)	1mV
	100.00-120.00V/500.00V	±(0.05%+0.03%FS)	10mV	±(0.05%+0.03%FS)	10mV	±(0.05%+0.03%FS)	10mV

Current measurement accuracy	0-9.9999A	$\pm(0.05\%+0.05\text{FS})$	0.1mA	$\pm(0.05\%+0.05\text{FS})$	0.1mA	$\pm(0.05\%+0.05\text{FS})$	0.1mA
	10.000-30.000/60.000A	$\pm(0.05\%+0.05\text{FS})$	1mA	$\pm(0.05\%+0.05\text{FS})$	1mA	$\pm(0.05\%+0.05\text{FS})$	1mA
Battery test function	Input= 0.8-120V/500V Max measurement capacity= 999A/H Resolution=0.1mA Timer range=1~60000sec						
Dynamic test mode	T1&T2(A or B test time):0.1mS-999S Error<2.5% + 0.1mS						
Protection range	>specified condition 5%						
Impedance in the input terminal	$\geq 200\text{K}\Omega$						
Dimensions	W*H*D 230mm*100mm*350mm						
Weight	6.5Kg						