

East Tester®

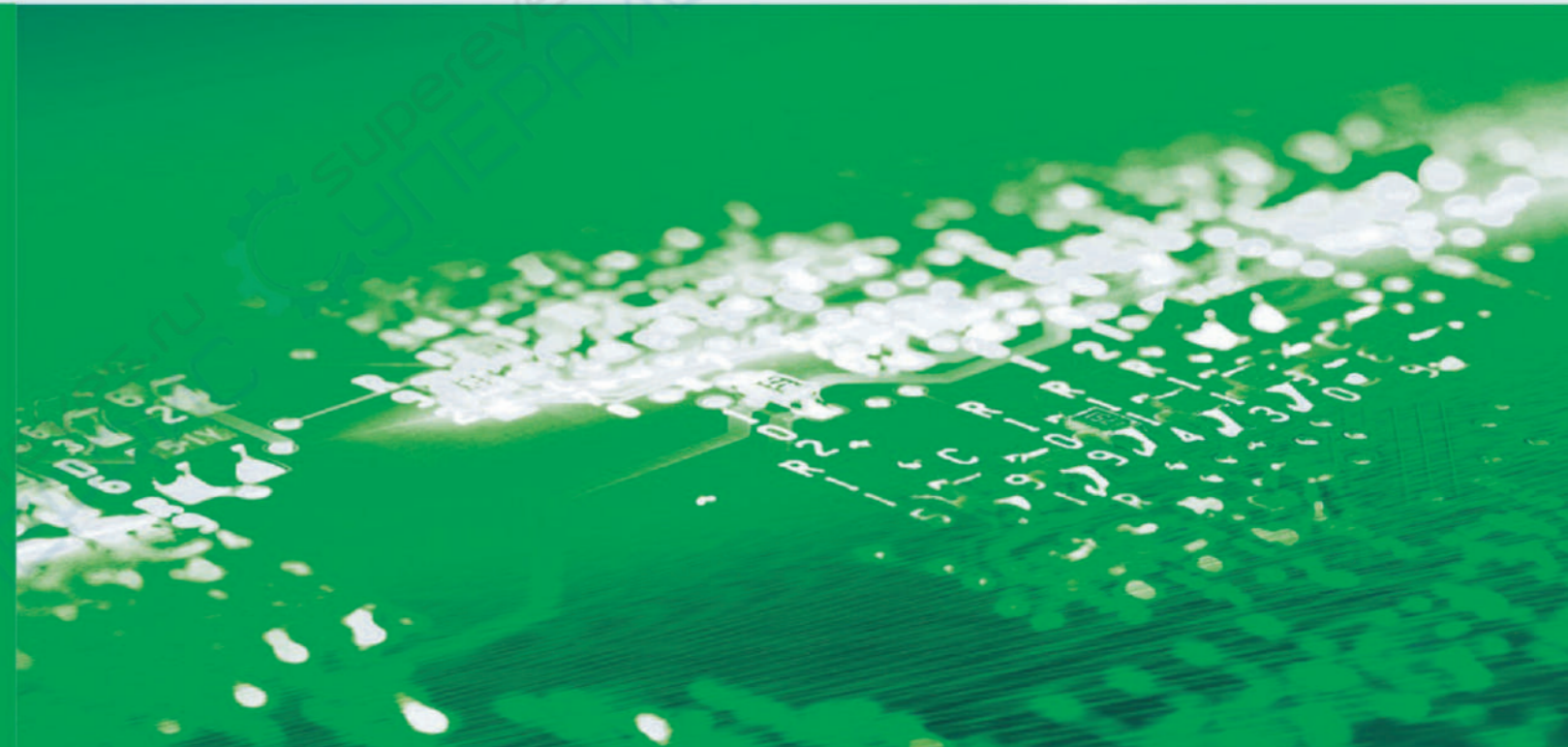
Hangzhou Zhongchuang Electron Co.,Ltd.

Instrument product manual(2019 Edition)

Committed to become a leading producer
of testing instruments at home and abroad



For More Details, please Visit Our Website.



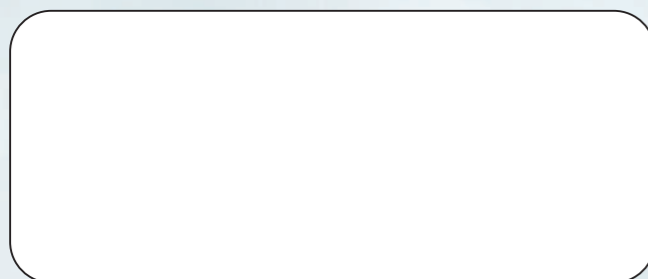
East Tester® Hangzhou Zhongchuang Electron Co.,Ltd.

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◆ Process calibration instrument

- Handheld Process Calibrator Series
- Desktop process calibrator
- Multichannel DC Signal Generation Calibrator
- Temperature Calibration Series
- Pressure calibration series

◆ Basic measuring instruments

- High Precision Digital Multimeter
- Functional Signal Generator
- LCR Digital Bridge (desktop, hand-held)

◆ DC Power Supply & Load

- Programmable Linear DC Power Supply
- Programmable DC Electronic Load

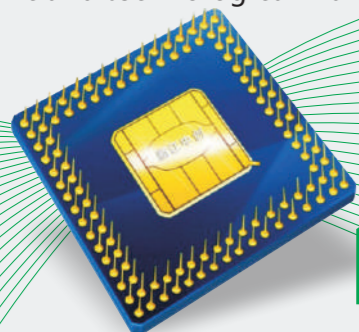


About Us Company profile

Hangzhou Zhongchuang Electron Co., Ltd. is a professional manufacturer integrating R&D, production and sales of "Zhongchuang" series thermal inspection instruments. At present, the company has more than 120 employees, including 23 high-tech talents with intermediate and senior titles and master's degree or above. The factory is located in Kangqiao Industrial Park, North Hangzhou Software Park. The company covers an area of 7300 square meters and a building area of 17500 square meters.

The company began the research and development of thermal inspection instruments in 1998, and has developed portable signal calibrator, desktop signal generator, portable pressure calibrator and other products, mainly used in electric power, petroleum, chemical industry, metallurgy, metrology, railway, textile, environmental protection and other industries.

The company imported ISO9001:2000 quality management system certification to ensure product quality. The company was awarded Hangzhou Information Port Enterprise in 2003 and Hangzhou Enterprise Technology Center in 2006. By 2018, seventeen software products of the company had obtained the national copyright certificate and nine products had passed the appraisal of the achievements of the scientific and technological management departments at the national, provincial and municipal levels.



East Tester

ET54 series single/double channel programmable dc electronic load, USES the high performance chip, high speed, high precision design, provide 1mV、1mA resolution, superior performance, can be widely applied to the charger, switching power supply, linear power supply, production test of all kinds of batteries and other industries, scientific research institutions such as the test research and development.

Product features

humanized design:

- ▣ 2.8-inch TFT LCD display, rich display content, support Chinese and English display;
- ▣ Simple and convenient operation process, with intuitive interface display system, easy to use;
- ▣ It has the function of key lock to prevent misoperation.

high-performance load:

- ▣ The basic measurement modes of CC, CV, CR, CP, CC+CV, CR+CV are provided;
- ▣ Provide professional battery test and LED test;
- ▣ Dynamic test mode, can test the dynamic power output performance;
- ▣ Scanning test mode can test the continuity of power output within a certain range;
- ▣ List mode, which can simulate various loaded state changes;
- ▣ Short circuit test for simulating load short circuit;
- ▣ The measurement model of the far end can improve the measurement accuracy when the current is high;
- ▣ Support external trigger input;
- ▣ Built-in buzzer alarm;
- ▣ Power off to maintain data storage function;
- ▣ Remote operation can be carried out through RS-232 interface and USB Device interface;
- ▣ With PS2 interface, support external keypad to set data values.

safety protection:

- ▣ With overvoltage, overcurrent and overpower protection functions, overvoltage and overcurrent parameters can be set flexibly to effectively protect the load.
- ▣ It has the function of secondary over-temperature protection to realize the double over-temperature protection of software and hardware.
- ▣ It has the function of intelligent fan speed control, which can effectively reduce the working fan noise.
- ▣ With output polarity reverse protection;

General technical specifications

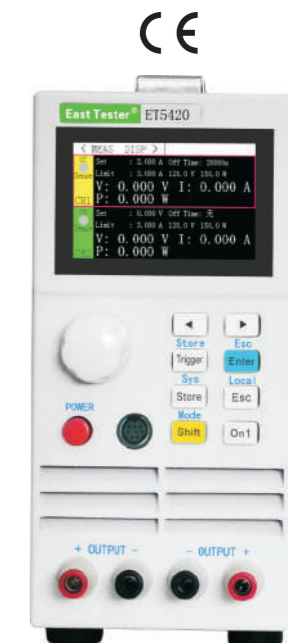
- ▣ Power voltage: 220Vac±10%, optional 110Vac±10%, 45-65hz;
- ▣ Display: 2.8-inch TFT LCD, resolution 320 x 240;
- ▣ Operating temperature: 0 °C to 40 °C;
- ▣ Storage temperature: - 10 °C to 70 °C;
- ▣ Relative humidity: < 80%;
- ▣ Interface: standard USB Device, RS232(or 485);
- ▣ Size: 90mm * 190mm * 300mm (width * height * depth).

Standard accessories:

- ▣ One three-core power cord;
- ▣ Two power fuses;
- ▣ 1 user manual.

Optional accessories:

- ▣ CD;
- ▣ USB cable;
- ▣ RS232/485 cable;
- ▣ The output line.



ET54 Series Programmable Electronic Load

Main technical indicators:

Model	ET5410	ET5420	ET5411
channel NO.	Single channel	double channel	Single channel
Rated input	power	400W	400W
	input voltage	0-150V	0-150V
	Input current	0-40A	0-20A×2
Constant voltage	range	0.1~19.999V 0.1~150.00V	0.1~19.999V 0.1~500.00V
	Resolution	1mV 10mV	
	accuracy	±(0.05%+0.02%FS)	
Constant current	range	0~3.000A 0~40.00A	0~3.000A 0~20.00A
	Resolution	1mA 10mA	
	accuracy	±(0.05%+0.05%FS)	
Constant resistance	range	0.05Ω~10Ω 10Ω~7.5kΩ	
	Resolution	16bit	
	accuracy	±(0.1%+0.8%FS)	
Constant power	range	0~400W	
	Resolution	10mW	
	accuracy	±(0.1%+0.1%FS)	
Dynamic test function	model	CC	
	T1&T2	50μs~3600s ; Resolution : 1μs	
	accuracy	0.1%+5μs	
Battery test function	Up/down Rate	0.000~0.3A/μs(current 0~3.000A) 0.000~1.5A/μs(current 3.000~40.00A)	
	Voltage range	0~120V	
	Discharge capacity	240Ah	
	Resolution	1mA	
Test time	1s~16h		
Measuring range			
Voltage readback	range	0~19.999V 0~150.00V	0~19.999V 0~500.00V
	Resolution	1mV 10mV	
	accuracy	±(0.05%+0.1%FS)	
Current readback	range	0~3.000A 0~40.00A	0~3.000A 0~20.00A
	Resolution	1mA 10mA	
	accuracy	±(0.05%+0.1%FS)	
Power readback	range	400W	
	Resolution	10mW	
	accuracy	±(0.1%+0.1%FS)	
Scope of protection			
Over voltage protection	> 150V Cut off		> 500V Cut off
Over current protection	> 40A Cut off	> 20A Cut off	> 15A Cut off
Overpower protection	400W		
Over temperature protection	85°C		
short circuit protection	current (CC)	≈3A ≈40A	≈3A ≈20A
	voltage (CV)	0V	
	resistance (CR)	≈40mΩ	