ET54A+ Series Programmable DC Electronic Load

General Information:

ET54A+ programmable DC electronic load provides 1mV/ 1mA high resolution and precision with superior performance, which can be widely used in charger, switching power supply, linear power supply, battery and other production line testing, as well as the research institutions and other research and development fields.





Products Features:

- User-friendly Design:
- It adopts 2.8-inch TFT LCD screen with rich display contents; Support Chinese and English;
- The operation process is simple and convenient, and with visual interface display system, it is
 easy to get started.
- Key lock function to prevent misoperation;
- ➤ High Performance Load
- It provides CC, CV, CR, CP and CC+CV, CR+CV several basic measurement modes;
- It provides professional battery test and LED test;
- The Tran test mode can test the dynamic output performance of the power supply;
- The scan test mode can test the continuity of power output within a certain range;
- The list test mode can simulate a variety of loading status changes;
- The short circuit test can be used to simulate load short circuit;
- Support external trigger input (DB9 interface is required);
- Built-in buzzer alarm;

- Maintain data storage in case of power failure;
- Remote operation via USB, RS-232 (optional) or 485 (optional) interfaces;
- Equipped with software remote compensation
- Multiple safety protection:
- It provides overcurrent, overvoltage, overpower, over temperature protection. The overvoltage and overcurrent parameters can be set flexibly, so as to effectively protect the load;
- It has intelligent fan speed control function, which can effectively reduce the fan noise when it is working.
- With input polarity reverse prompt;

Main Technical Index:

MODEL		ET5410 A+	ET5420 A+	ET5411 A+		
Channels		Single Channel	Double channels	Single Channel		
Rated input	Power	400W	400W (200W×2)	400W		
	Input voltage	0-150V	0-150V	0-500V		
	Input current	0-40A	0-20A×2	0-15A		
CV mode	Range	0.1~19.999V, 0.1~150.00V		0.1~19.999V, 0.1~500.00V		
	Resolution	1mV, 10mV				
	Accuracy	$\pm (0.05\% + 0.02\% FS)$				
CC mode	Range	0~3.000A, 0~40.00A	0~3.000A, 0~20.00A	0~3.000A, 0~15.00A		
	Resolution	1mA, 10mA				
	Accuracy	$\pm (0.05\% + 0.05\% FS)$				
CR mode	Range	0.05 Ω ~1 k Ω , 1 k Ω ~4.5k Ω				
	Resolution	$10 \mathrm{m}\Omega$, $100 \mathrm{m}\Omega$				
	Accuracy	$\pm (0.1\% + 0.5\% FS)$				
CP mode	Range	0~400W	0~200W	0~400W		
	Resolution	10mW				
	Accuracy	$\pm (0.1\% + 0.5\% FS)$				
Tran Test	Mode	CC, CV				
	T1&T2	1ms~60s; 分辨率: 1ms				
	Accuracy	0.1%+1ms				
Battery Test	Discharge	CC, CR				
	mode					
	Maximum	9999Ah				
	discharge					
	capacity					
	Resolution	1mA , 10mA , $10\text{m}\Omega$, $100\text{m}\Omega$				
Range of measurement						
Voltage	Range	0~19.999V, 0~150.00V		0~19.999V, 0~500.00V		
read-back	Resolution	1mV, 10mV		1mV, 10mV		
value	Accuracy	$\pm (0.05\% + 0.1\% FS)$				

Current	Range	0~3.000A, 0~40.00A	0~3.000A, 0~20.00A	0~3.000A, 0~15.00A			
read-back	Resolution	1mA, 10mA					
value	Accuracy	±(0.05%+0.1%FS)					
Power	Range	0~400W	0~200W	0~400W			
read-back	Resolution	10mW					
value	Accuracy	$\pm (0.1\% + 0.5\% \text{FS})$					
Scope of protection							
Over Voltage Protection(OV)		>155V cut off input		>510V cut off input			
Over Current Protection(OC)		>42A cut off input	>22A cut off input	>16A cut off input			
Over Power Protection(OP)		420W	220W	420W			
Over Temperature Protection		85℃					
Short Circuit	Current (CC)	≒3A	≒3A	≒3A			
		≒40A	≒20A	≒15A			
	Voltage (CV)	0V					
	Resistance	÷ 40m0					
	(CR)	≒40mΩ					

General technical specifications:

- Power supply voltage: 100Vac±10%~240Vac±10%, 50/60Hz
- Display: 2.8-inch TFT LCD screen with resolution of 320×240
- Operating temperature: 0°C to 40°C
 Storage temperature: -10°C to 70°C
- Relative humidity: < 80%
- Interface: standard USB, optional RS232(or 485)
- Size: 90mm×190mm×300mm (width × height × depth)

Standard accessories:

- Power cord * 1
- Power fuse * 2
- User manual* 1

Optional Accessories:

- Light disk
- USB cable
- ES232/ 485 cable