
Medium power electronic load FT63200A/E/H series



|Sketch

The power programmable DC electronic load in the FT63200A/E/H series is designed for high reliability and high power density, and can achieve 2U/3kW, which is twice the power density of traditional loads.

The FT63200A/E/H series has three voltage ranges of 150V, 600V and 1200V, and the single power range is from 600W to 3kW. Its wider working range and extremely fast dynamic frequency effectively increase the test capability and application range. The whole series of products have strong overload capacity, and the instantaneous over-power pulling can reach 2 times the rated power, which can effectively reduce the test cost.

FT63200A/E/H has LAN, RS485, CAN, USB, RS232 and other communication interfaces and analog interfaces, and supports SCPI, Modbus, CANopen communication protocols, which provides great convenience for system integration applications

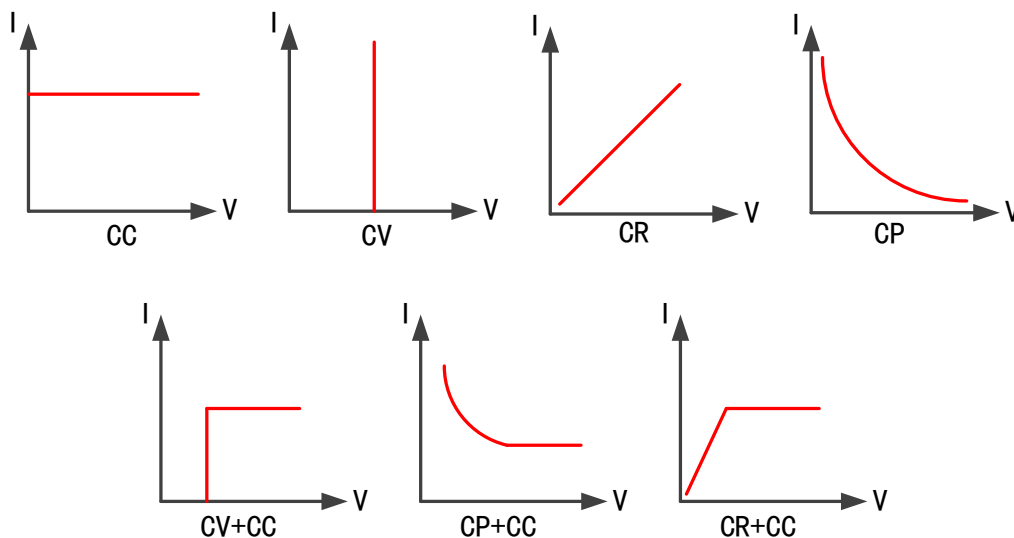
|Characteristic

- High power density design, the whole machine can achieve 3kW/2U;
- Single power: 600W ~ 3000W, the maximum power can be extended to 30kW through the master/slave parallel;
- Voltage level: 150V, 600V, 1200V;
- High precision, voltage accuracy is (0.025%+0.025%F.S.);
The current accuracy is (0.05%+0.05%F.S.);
- Multiple working modes: CC, CV, CR, CP, CRD, CPD, CV+CC, CR+CC, CP+CC operation mode;
- Sampling speed 500kHz;
- The maximum current slope of the single unit is 40A/us.
- 30kHz dynamic scanning function;
- remote data transmission rate up to 1kHz, can greatly improve the communication interface data acquisition capability;
- instantaneous over-power load function, instant load capacity can reach twice the rated power;
- OCP, OPP, LED simulation, load effect, battery internal resistance, battery discharge test function;

- Time measurement, ($V_{pk+/-}$) measurement function;
- Automatic test function, sine wave band load function, sequence function;
- Comprehensive protection functions: overvoltage, overcurrent, overtemperature, current limit, power limit, reverse connection alarm, power failure memory, etc.
- external analog programming input and current monitoring output, with high voltage isolation capability;
- TFT color LCD display, Chinese and English menu interface;
- equipped with a variety of communication interfaces: RS485, LAN, USB, RS232, CAN (optional);
- Supports SCPI and ModBus communication protocols

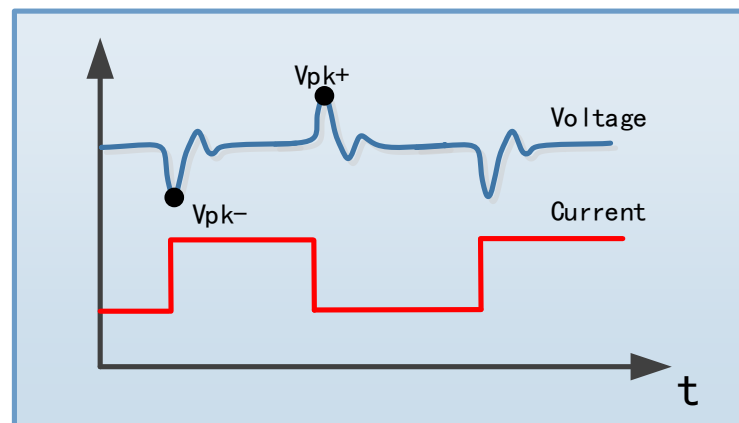
[Multiple operating modes](#)

FT63200A/E/Hseries has four basic operating modes of constant current, constant voltage, constant resistance and constant power, which can meet a wide range of test needs. At the same time, it also has the function of CV+CC, CR+CC, CP+CC multiple composite operation modes. Users can set the current limit value according to their own test requirements to avoid overcurrent damage to the test product during the test process. Among them, CV+CC mode can be applied to simulate battery charging characteristics, test charging piles and similar products such as vehicle chargers. CR+CC mode simulates power supply voltage current limitation and accuracy testing.



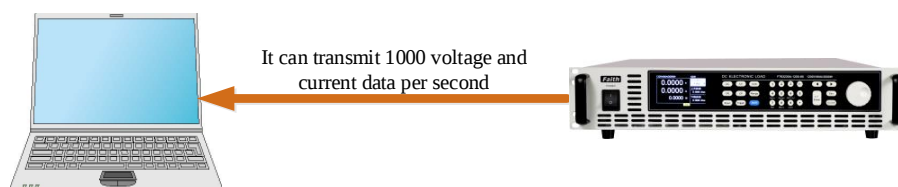
|30kHz dynamic sweep, Vpk+/- capture

FT63200A/E/Hseries has dynamic sweep function, the maximum frequency can be set 30kHz. During the test, the peak voltage Vpk+, valley voltage Vpk- and the occurrence frequency of the measured power supply are captured and recorded by adjusting the current pulling frequency. It can effectively test the dynamic response of various power supplies at different frequencies.。



|1kHz data transmission

FT63200A/E/H series can provide users with up to 1kHz data transmission, that is, 1000 voltage and current data points per second, in order to achieve waveform rendering and dynamic data analysis functions. In the application of system integration, the host computer can get a lot of test data directly and reduce the cost by this function without oscilloscope and high-speed current acquisition hardware.。



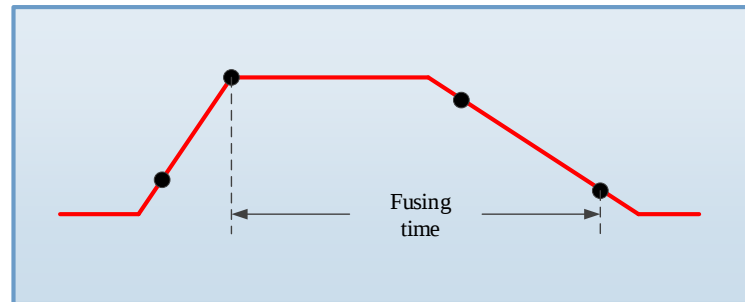
|Instantaneous overpower loading function

The FT63200A/E/H series of electronic loads have instantaneous loading capacity of more than twice the rated power. In simulating DC motor starting

characteristics, instantaneous overload characteristics of power supply, instantaneous high-rate discharge characteristics of power battery, instantaneous load capacity of power electronic devices and other instantaneous high-power loading test, it can greatly save costs.

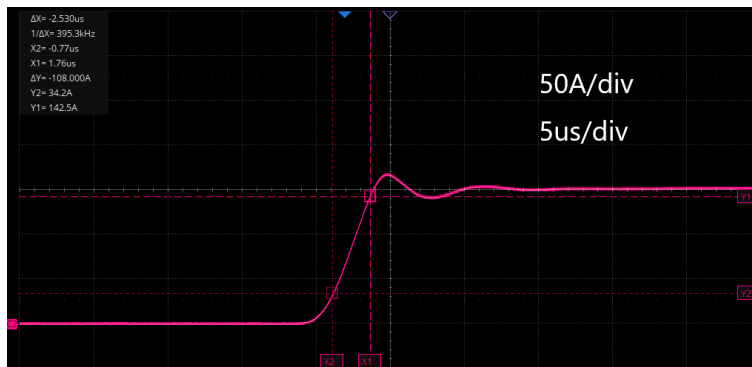
|Time measurement

FT63200A/E/Hseries electronic load with time measurement function. By capturing the external switching signal, combined with the switching signal and the voltage and current signal, the response and operation time of the system and the pulse width of the pulse current can be measured. It is mainly used to measure the on-off time, holding time, rising edge and falling edge time of the power supply, as well as the fuse fuse time and circuit breaker response time.



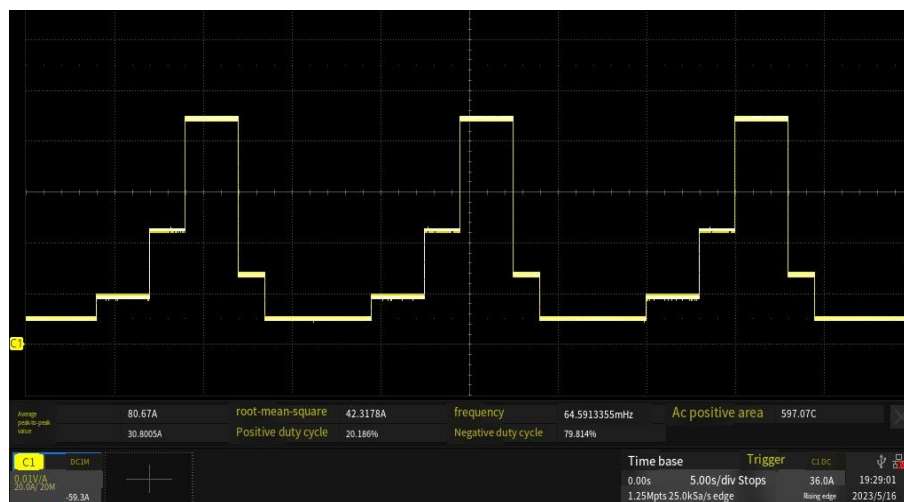
|Ultra-high current slope

The FT63200H series features an extremely high current slope, with the maximum current slope of a single channel reaching up to $40\text{A}/\mu\text{s}$. In rapidly changing testing requirements, it can instantly complete load switching and precisely simulate the sudden changes in current under real working conditions. Whether it is the transient response test of a switching power supply or the rapid load pull assessment of the chip core power supply, it can provide microsecond-level dynamic response, making the test data more timely and accurate.



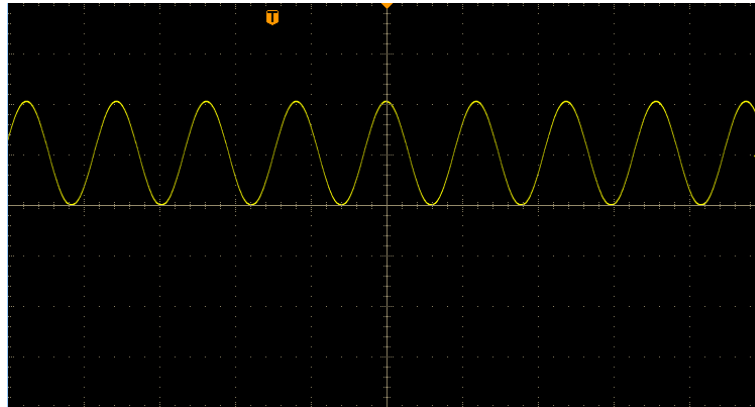
|Sequence function

The FT63200A/E/H series of electronic loads provides sequential test capability for editing up to 50 test files with 100 steps each. It supports load timing changes in CC, CV, CR, CP and other modes, and also supports sequence editing functions such as file link. A maximum of 5000 steps can be edited. The time range of a single step is 0.1ms to 99999s



|Sine wave dynamic load

The FT63200A/E/H series is equipped with sine-wave current-carrying function and can be used for impedance analysis and testing of fuel cells.。

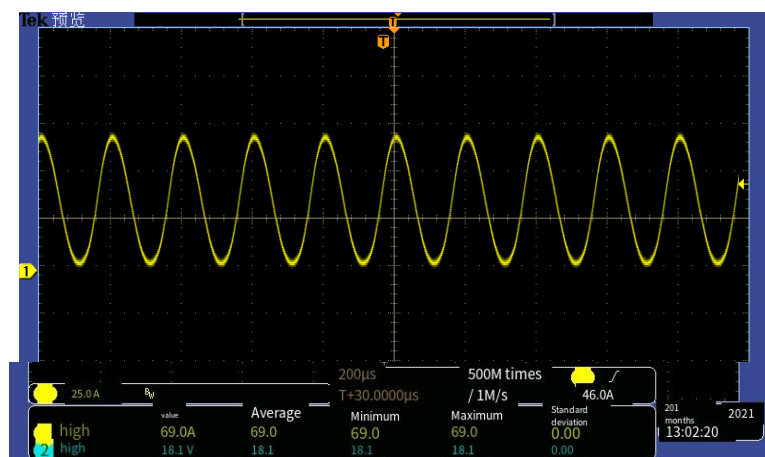


|cascade

The cascade function of the FT63200A/E series supports the parallel use of up to 10 loads, extending the power usage range of electronic loads. During the cascading process, each load automatically equalizes traffic, and the slave automatically copies the load parameters of the host. Single machine can also be used independently, more flexible power configuration.

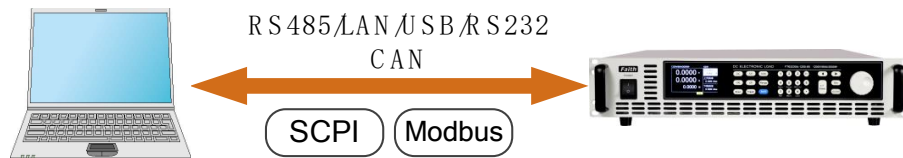
|External simulation programming

The FT63200A/E/H series has external analog programming capabilities. Other devices can continuously control the load via an external voltage signal (DC or AC). The external voltage signal of 0 ~ 10V corresponds to 0 ~ 100% full scale on-load current. This function can also be used for various complex band carrier shape tests.



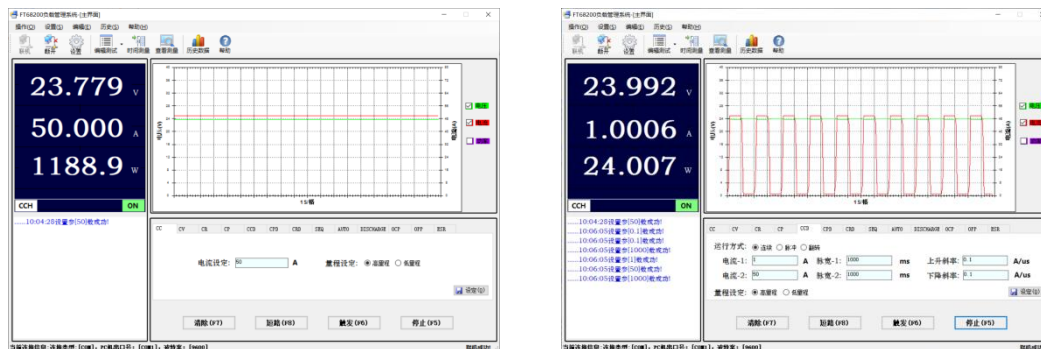
|Multi-interface and multi-protocol

The FT63200A/E/H series is equipped with a variety of communication interfaces, and supports both SCPI and Modbus communication protocols. Users can configure the system on the menu according to their needs, which makes the system integration more flexible.



Computer graphical operation software

FT63200A/E/H series provides a host computer software with virtual instrument function, which can read test data in real time, generate images, export reports, print reports, etc., which is convenient for customers to use.



|Ordering Information

Product series	Power class	150V	600V	1200V	Height
A series	600W	FT63206A-150-60	FT63206A-600-40	FT63206A-1200-15	2U
		FT63206A-150-120	-	-	2U
	750W	FT63207A-150-75	FT63207A-600-50	FT63207A-1200-20	2U
	1200W	FT63212A-150-120	FT63212A-600-75	FT63212A-1200-30	2U
	1500W	FT63215A-150-150	FT63215A-600-100	FT63215A-1200-40	2U
	2250W	FT63222A-150-225	FT63222A-600-150	FT63222A-1200-60	2U
	3000W	FT63230A-150-300	FT63230A-600-200	FT63230A-1200-80	2U
E series	600W	FT63206E-150-60	FT63206E-600-40	FT63206E-1200-15	2U
		FT63206E-150-120	-	-	2U
	750W	FT63207E-150-75	FT63207E-600-50	FT63207E-1200-20	2U
		FT63212E-150-240			2U
	1200W	FT63212E-150-120	FT63212E-600-75	FT63212E-1200-30	2U
	1500W	FT63215E-150-150	FT63215E-600-100	FT63215E-1200-40	2U
	2250W	FT63222E-150-225	FT63222E-600-150	FT63222E-1200-60	2U
H series	3000W	FT63230E-150-300	FT63230E-600-200	FT63230E-1200-80	2U
	600W	FT63206H-150-60	FT63206H-600-40	FT63206H-1200-12	2U
	750W	FT63207H-150-75	FT63207H-600-50	FT63207H-1200-15	2U
	1200W	FT63212H-150-120	FT63212H-600-75	FT63212H-1200-24	2U
	1500W	FT63215H-150-150	FT63215H-600-100	FT63215H-1200-30	2U
	2250W	FT63222H-150-225	FT63222H-600-150	FT63222H-1200-45	2U
	3000W	FT63230H-150-300	FT63230H-600-200	FT63230H-1200-60	2U

|purchase information

Name	Model or Specification	Instruction
CAN adapter card	FT63201C	Factory installation before shipment

*Test cables are optional. For details about specifications and models, see Optional Accessories in this manual.

Specification table

Specification table-1 :

Model	FT63206A/E-150-60		FT63206A/E-600-40		FT63206A/E-1200-15	
Voltage	150V		600V		1200V	
Current	60A		40A		15A	
Power	600W		600W		600W	
Minimum operating Voltage	1.5V@60A		8V@40A		20V@15A	
Constant Current					Constant Current	
Range	6A	60A	4A	40A	1.5A	15A
Resolution	0.1mA	1mA	0.07mA	0.7mA	0.025mA	0.25mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Constant Resistance						
Range	0.09~500Ω	0.9~2500Ω	0.56~3000Ω	5.6~15000Ω	3~16000Ω	30~80000Ω
Precision	Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.	
Constant power						
Range	600W		600W		600W	
Precision	0.2%+0.2% F.S.		0.2%+0.2% F.S.		0.2%+0.2% F.S.	
Dynamic						
T1&T2	10us~60S		10us~60S		10us~60S	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0.001~0.06A/us	0.01~0.6A/us	0.0001~0.04A/us[Y1]	0.001~0.4A/us	0.0001~0.025A/us	0.001~0.25A/us
Current measurement						
Range	6A	60A	4A	40A	1.5A	15A
Resolution	0.1mA	1mA	0.07mA	0.7mA	0.025mA	0.25mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%, 50~60Hz, 220VA					
Operating Temperature	0~40℃					

Weight	16kg
Dimension	482.6mm(W)x 88.0mm(H)x 662.2mm(L)

Specification table-2:

Model	FT63207A/E-150-75		FT63207A/E-600-50		FT63207A/E-1200-20	
Voltage	150V		600V		1200V	
Current	75A		50A		20A	
Power	750W		750W		750W	
Minimum operating Voltage	1.5V@75A		8V@50A		20V@20A	
Constant Current						
Range	7.5A	75A	5A	50A	2A	20A
Resolution	0.15mA	1.5mA	0.1mA	1mA	0.05mA	0.5mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Constant Resistance						
Range	0.074~400Ω	0.74~2000Ω	0.446~2400Ω	4.46~12000Ω	2.23~12000Ω	22.3~60000Ω
Precision	Vin/Rset*(0.2%)+0.2%IF.S		Vin/Rset*(0.2%)+0.2%IF.S		Vin/Rset*(0.2%)+0.2%IF.S	
Constant powe						
Range	750W		750W		750W	
Precision	0.2%+0.2% F.S.		0.2%+0.2% F.S.		0.2%+0.2% F.S.	
Dynamic						
T1&T2	10us~60s		10us~60s		10us~60s	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0.001~0.07A/us	0.001~0.7A/us	0.0001~0.05A/us	0.001~0.5A/us	0.0001~0.03A/us	0.001~0.3A/us
Current measurement						
Range	7.5A	75A	5A	50A	2A	20A
Resolution	0.15mA	1.5mA	0.1mA	1mA	0.05mA	0.5mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%, 50~60Hz, 220VA					
Temperature	0~40℃					
Weight	16kg					
Dimension	482.6mm(W)x 88.0mm(H)x 662.2mm(L)					

Specification table-3:

Model	FT63212A/E-150-120		FT63212A/E-600-75		FT63212A/E-1200-30	
Voltage	150V		600V		1200V	
Current	120A		75A		30A	
Power	1200W		1200W		1200W	
Minimum operating Voltage	1.5V@120A		8V@75A		20V@30A	
Constant Current						
Range	12A	120A	7.5A	75A	3A	30A
Resolution	0.2mA	2mA	0.125mA	1.25mA	0.05mA	0.5mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Constant Resistance						
Range	0.045～250Ω	0.45～1250Ω	0.3～1600Ω	3～8000Ω	1.5～8000Ω	15～40000Ω
Precision	Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.	
Constant power						
Range	1200W		1200W		1200W	
Precision	0.2%+0.2% F.S.		0.2%+0.2% F.S.		0.2%+0.2% F.S.	
Dynamic						
T1&T2	10us～60S		10us～60S		10us～60S	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0.001～0.12A/us	0.01～1.2A/us	0.0001～0.075A/us	0.001～0.75A/us	0.0001～0.045A/us	0.001～0.45A/us
Current measurement						
Range	12A	120A	7.5A	75A	3A	30A
Resolution	0.2mA	2mA	0.125mA	1.25mA	0.05mA	0.5mA
Precision	0.05%+0.05%F.S.		0.05%+0.05%F.S.		0.05%+0.05%F.S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%， 50～60Hz， 220VA					
Temperature	0～40℃					
Weight	18kg					
Dimension	482.6mm(W)x 88.0mm(H)x 662.2mm(L)					

Specification table-4:

Model	FT63215A/E-150-150		FT63215A/E-600-100		FT63215A/E-1200-40	
Voltage	150V		600V		1200V	
Current	150A		100A		40A	
Power	1500W		1500W		1500W	
Minimum operating Voltage	1. 5V@150A		8V@100A		20V@40A	
Constant Current						
Range	15A	150A	10A	100A	4A	40A
Resolution	0. 3mA	3mA	0. 2mA	2mA	0. 1mA	1mA
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Constant Resistance						
Range	0. 037~200 Ω	0. 37~1000 Ω	0. 223~1200 Ω	2. 23~6000 Ω	1. 115~6000 Ω	11. 15~30000 Ω
Precision	Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.	
Constant power						
Range	1500W		1500W		1500W	
Precision	0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.	
Dynamic						
T1&T2	10us~60S		10us~60S		10us~60S	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0. 001~ 0. 14A/us	0. 01~1. 4A/us	0. 0001~0. 1A/us	0. 001~1A/us	0. 0001~0. 06A/us	0. 001~0. 6A/us
Current measurement						
Range	15A	150A	10A	100A	4A	40A
Resolution	0. 3mA	3mA	0. 2mA	2mA	0. 1mA	1mA
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%， 50～60Hz， 220VA					
Temperature	0～40℃					
Weight	18kg					

Dimension	482. 6mm (W) x 88. 0mm (H) x 662. 2mm (L)
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Specification table-5:

Model	FT63222A/E-150-225		FT63222A/E-600-150		FT63222A/E-1200-60	
Voltage	150V		600V		1200V	
Current	225A		150A		60A	
Power	2250W		2250W		2250W	
Minimum operating Voltage	1. 5V@225A		8V@150A		20V@60A	
Constant Current						
Range	22. 5A	225A	15A	150A	6A	60A
Resolution	0. 45mA	4. 5mA	0. 3mA	3mA	0. 15mA	1. 5mA
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Constant Resistance						
Range	0.025~133Ω	0.25~666Ω	0.149~800Ω	1.49~4000Ω	0.744~4000Ω	7.44~20000Ω
Precision	Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.	
Constant power						
Range	2250W		2250W		2250W	
Precision	0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.	
Dynamic						
T1&T2	10us~60S		10us~60S		10us~60S	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0. 001~0. 21A/us	0. 01~2. 1A/us	0. 0001~ 0. 15A/us	0. 001~1. 5A/us	0. 0001~ 0. 06A/us	0. 001~0. 6A/us
Current measurement						
Range	22. 5A	225A	15A	150A	6A	60A[2]
Resolution	0. 4mA	4mA	0. 3mA	3mA	0. 15mA	1. 5mA[3]
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%，50~60Hz，220VA					
Temperature	0~40℃					
Weight	20kg					
Dimension	482. 6mm (W) x 88. 0mm (H) x 662. 2mm (L)					

Specification table-6:

Model	FT63230A/E-150-300		FT63230A/E-600-200		FT63230A/E-1200-80	
Voltage	150V		600V		1200V	
Current	300A		200A		80A	
Power	3000W		3000W		3000W	
Minimum operating Voltage	1. 5V@300A		8V@200A		20V@80A	
Constant Current						
Range	30A	300A	20A	200A	8A	80A
Resolution	0. 6mA	6mA	0. 4mA	4mA	0. 2mA	2mA
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Constant Voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Constant Resistance						
Range	0. 019~100 Ω	0. 19~500 Ω	0. 112~600 Ω	1. 12~3000 Ω	0. 558~3000 Ω	5. 58~15000 Ω
Precision	Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.		Vin/Rset*(0. 2%)+0. 2%IF. S.	
Constant power						
Range	3000W		3000W		3000W	
Precision	0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.		0. 2%+0. 2% F. S.	
Dynamic						
T1&T2	10us~60s		10us~60s		10us~60s	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope	0. 001~0. 28A/us	0. 01~2. 8A/us	0. 0001~0. 2A/us	0. 001~2A/us	0. 0001~0. 12A/us	0. 001~1. 2A/us
Current measurement						
Range	30A	300A	20A	200A	8A	80A
Resolution	0. 6mA	6mA	0. 4mA	4mA	0. 2mA	2mA
Precision	0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.		0. 05%+0. 05%F. S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0. 5mV	2. 5mV	2mV	10mV	4mV	20mV
Precision	0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.		0. 025%+0. 025%F. S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%，50～60Hz，220VA					
Temperature	0～40℃					
Weight	22kg					
Dimension	482. 6mm (W) x 88. 0mm (H) x 662. 2mm (L)					

Specification table-7:

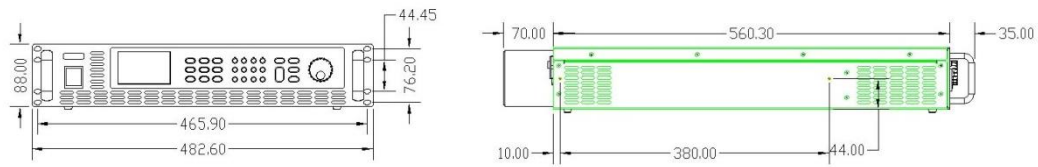
Model	FT63230H-150-300		FT63230H-600-200		FT63230H-1200-60	
Voltage	150V		600V		1200V	
Current	300A		200A		60A	
Power	3000W		3000W		3000W	
Minimum operating Voltage	1.5V@300A		8V@200A		20V@60A	
Constant current						
Range	30A	300A	20A	200A	6A	60A
Resolution	0.6mA	6mA	0.4mA	4mA	0.1mA	1mA
Precision	0.1%+0.1%F.S.		0.1%+0.1%F.S.		0.1%+0.1%F.S.	
Constant voltage						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Constant Resistance						
Range	0.019~100Ω	0.19~500Ω	0.112~600Ω	1.12~3000Ω	0.75~4000Ω	7.5~20000Ω
Precision	Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.		Vin/Rset*(0.2%)+0.2%IF.S.	
Constant power						
Range	3000W		3000W		3000W	
Precision	0.2%+0.2% F.S.		0.2%+0.2% F.S.		0.2%+0.2% F.S.	
Dynamic						
T1&T2	10us~60s		10us~60s		10us~60s	
Resolution	2us		2us		2us	
Precision	1us+20PPM		1us+20PPM		1us+20PPM	
Slope (A/us)	0.001~4	0.001~40	0.001~2	0.001~20	0.001~0.6	0.001~6
Current measurement						
Range	30A	300A	20A	200A	6A	60A
Resolution	0.6mA	6mA	0.4mA	4mA	0.1mA	1mA
Precision	0.1%+0.1%F.S.		0.1%+0.1%F.S.		0.1%+0.1%F.S.	
Voltage measurement						
Range	30V	150V	120V	600V	240V	1200V
Resolution	0.5mV	2.5mV	2mV	10mV	4mV	20mV
Precision	0.025%+0.025%F.S.		0.025%+0.025%F.S.		0.025%+0.025%F.S.	
Other Specification						
AC Voltage	110Vac/220Vac±10%, 50~60Hz, 260VA					
Temperature	0~40℃					
Weight	22kg					
Dimension	482.6mm(W)x 88.0mm(H)x 662.2mm(L)					

* All specifications are subject to change without notice

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1. Meet the rated specifications in the ambient temperature range of $25\pm5^{\circ}\text{C}$.
 2. If the operating voltage exceeds 1.05 times the rated voltage, permanent damage may be caused to the device

Dimension Drawing

2U Model Dimension Drawing



|A/E/H Function configuration list

Function list	A	E	H
Constant Current (CCH/CCL)	✓	✓	✓
Constant Voltage (CVH/CVL)	✓	✓	✓
Constant Resistance (CR)	✓	✓	✓
Constant Power (CP)	✓	✓	✓
Dynamic Current (CCDH/CCDL)	✓	✓	✓
Dynamic Resistance (CRD)	✓	x	✓
Dynamic Power (CPD)	✓	x	✓
Sequence (SEQ)	✓	✓	✓
Auto	✓	✓	✓
Over Current protection	✓	✓	✓
Over power protection	✓	✓	✓
Discharge	✓	✓	✓
Load Effect	✓	✓	✓
Discharge Resistance	✓	✓	✓
LED Simulation (LED)	✓	x	✓
Dynamic scanning (SWEEP)	✓	✓	✓
CV+CC	✓	x	✓
CR+CC	✓	x	✓
CP+CC	✓	x	✓
Save	✓	✓	✓
Recall	✓	✓	✓
Remote compensation	✓	✓	✓
Constant voltage velocity	✓	✓	✓
Simulation programming	✓	✓	✓
External control	✓	✓	✓
Simulation short	✓	✓	✓
Timed load	✓	✓	✓
VON/VOFF	✓	✓	✓
Limit set	✓	✓	✓
Hardware limitation	✓	✓	✓
Protection Set	✓	✓	✓
Time measurement	✓	✓	✓
Vpk+/-	✓	✓	✓

Data transmission	1kHz/s	1kHz/s	1kHz/s
Parallel operation	✓	✓	✓
communication	RS485/LAN/RS232/USB (CAN optional)		RS485/LAN/RS232/USB (CAN optional;)

*All specifications are subject to change without notice.。