

FT8340 SERIES Multi-channel Bipolar DC Power Supply/Battery Simulator



Overview

FT8340 multi-channel Bipolar battery cell simulator can be used as a power source to output electric energy at CV or CC mode, or as an electronic load to consume electric energy at CV or CC mode. A single FT8340 unit has 8 channels, channels are isolated and support series / parallel operation. The standard host PC software is easy to operate, supports single-channel and multi-channel programming, as well as multi-process programming.

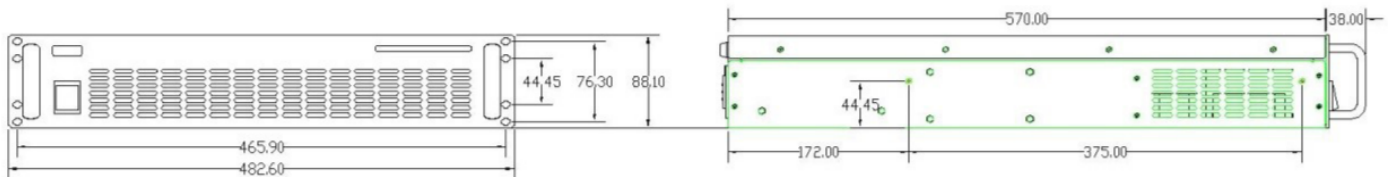
Features :

- Voltage: 0~6V/0~30V;
- Current: $\pm 1A/\pm 2A/\pm 3A/\pm 5A/\pm 10A$;
- Four-wire wiring, high output voltage accuracy;
- Voltage temperature drift coefficient less than :25ppm/°C;
- Source, load seamless switching, powerful battery characteristics simulation function;
- Unique fault simulation function, analog battery drop line, short circuit, reverse connection, etc Channels are isolated, support arbitrary serial / parallel operation;
- Professional test software, support data report and data analysis;
- RS485 and dual Ethernet control interfaces;
- Standard 19-inch, 2U chassis design for easy rack installation.

Application Areas

BMS (battery management system) test;

Dimensional drawing



Order information

Model	Spec	Remark
FT8340A	FT8340Series dedicated chassis	two battery simulator modules can be installed for each unit
FT83404A-6-1	Battery simulator module 6V /1A/	6W, 4 channels
FT83404A-6-3	Battery simulator module 6V /3A/	18W, 4 channels
FT83404A-6-5	Battery simulator module 6V /5A/	30W, 4 channels
FT83404A-15-1	Battery simulator module 15V/1A	/15W, 4 channels
FT83404A-15-2	Battery simulator module 30V/10A	/150W, 2 channels

Application areas :

- CMS (Super Capacity management System) test;
- headphones, mobile phones and tablets testing
- Production test of power tools;
- Power supply test of other electronic products

Static power consumption test

FT8340 has high precision voltage and current measurement. Current accuracy up to $1\mu A$. FT8340 is used to power the tested product, which can directly test the static power consumption of the tested product in standby state and screen out unqualified products.

Fault simulation function

A single machine has up to 8 independent output simulator channels, each channel has built-in positive/negative short circuit, positive/negative circuit breaker, polarity reverse connection and other functions. Directly controlled by PC software, save battery fault external matrix switch components, for clients to save the space and valuable investment.

Parameters

Model	FT83404A-6-1	FT83404A-6-3	FT83404A-6-5	FT83404A-15-1	FT83404A-30-10	
Voltage	-6V~6V	-6V~6V	-6V~6V	-15V~15V	-30V~30V	
Current	±1A	±3A	±5A	±1A	±10A	
Power	6W	18W	30W	15W	150W	
input impedance	≥3GΩ	≥3GΩ	≥3GΩ	≥3GΩ	≥3GΩ	
Channel number		4	4	4	4	
Maximum series connection	maximum series output voltage shall not exceed 1000V, and the hosts can be connected in series					
Voltage parameter	Output range	0~6.12V		0~15.3V	0~30.3V	
	Output accuracy	0.01%+1mV		0.01%+3mV	0.01%+6mV	
	Resolution ratio	0.1mV		0.25mV	0.5mV	
	Measurement accuracy	0.01%+1mV		0.01%+3mV	0.01%+6mV	
	Resolution ratio	0.1mV				
	Risetime	≤10ms				
Temperature coefficient	25ppm /°C					
Current						
parameters(double-range)	Output range	-1~1A	-3~3A	-5~5A	-1~1A	-10~10A
	measurement accuracy	0.02%+1mA	0.02%+3mA	0.02%+5mA	0.02%+1mA	0.02%+10mA
range 1	Resolution ratio	0.1mA				
	Output range	-1~1mA	-1~1mA	-1~1mA	-1~1mA	-1~1mA
range 2	Measurement accuracy	0.02%+1uA	0.02%+1uA	0.02%+1uA	0.02%+1uA	0.02%+1uA
	resolution ratio	0.1uA				
temperature coefficient	50ppm /°C					
DVM(digital voltmeter)						
number of channels	4CH					
Measure the voltage range	-30V~+30V					
Measurement resolution	0.1mV					
connecting terminal measurement	Plug and pull wiring terminals					
accuracy	0.01%F.S.					
measuring frequency	20Hz					
input impedance	2MΩ					
temperature coefficient	30ppm /°C					
Fault simulation (simulated test failure))	Positive electrode open circuit, negative electrode open circuit, output short circuit, polar reverse connection					
Other features						
Maximum number of channels	8CH					
mode of connection	four-wire wiring for green PCB welding					
size	2U/19 inch					
sampling frequency	20Hz					
communication interface	LAN、RS485					
transport protocols	TCP/IP					
Input power	Single phase AC 220V±10 % , 50/60Hz					
Environmental	working temperature	0~40°C				
	Storage temperature	-25°C~60°C				
	Working humidity	20 % rh~85 %rh (No condensation)				
	Store humidity	<90 %rh (No condensation)				
operating environment	altitude <2000m, Indoor use					

