

## FST-2000CT All in one Battery Load Bank

**General:**

Batteries in power plants, transformer substations, Telecom company and Force communications must provide the equipment they serve with standby power in the event of a power failure. This is why so important to check batteries regular intervals, and the only reliable way of measuring battery capacity is to conduct a discharge test.

FST-2000CT –Utility is used for battery systems range from 12V-96V Battery string, Discharge can take place at up to 200Amps, and if higher current is needed, two or more FST-2000CT units can be linked together.

**Product Type:**

**Different discharge current range**

String Voltage	2V-96VDC 200Amps
<b>Discharge current Range</b>	<p><b>Three discharge Voltage Grade Range with different discharge current :</b></p> <p><b>2V-10V:</b>( 2V: 30A; 4V: 100A; 6V: 160A)</p> <p><b>10V-60V:</b> (12V: 60A; 24V: 120A; 36V: 180A;48V: 200A;)</p> <p><b>60V-120V:</b> ( 72V: 170A; 96V: 200A)</p>

All above listed items are standard one. The voltage and currency can be customized according to client’s certain demand. When you place order please indicate the voltage, currency, model and function as well as if you need single section supervision by wire or wireless.



**Main Functions and Features:**

- 1、 Used to discharge to battery string removed from the system
- 2、 Discharge to Battery string voltage as 12V/24V/36V/48V/72V/80V/96V, Cell voltage as 1.2V/2V/6V/12V
- 3、 4 adjustable stop points and multiple alarm designs to control the discharge process intelligently
- 4、 7inch LCD touch screen for easy operation and showing various parameters real time
- 5、 Support real time monitoring by PC through USB port or **SD Card** download data after discharge
- 6、 PC software for capacity evaluation and report generation

7、 Optional wireless modules for 1.2V/2V/6V/12V cells voltage real-time measuring

1、 On-line monitoring test setting interface:

Monitor setting						18.1v	33%	10-30-2015	16 31
Setting information									
RoomNo	0001	StringNo	01	StringNum	1				
StringType	2V-10V	CellType	--	CellNum	--				
NominalCap	10V-60V	CellOrder	--	TestTime	10:00(H:M)				
	60V-120V	Alarm-condition							
UMaxString			UMinString						
--			43.20V						
UMaxCell			UMinCell						
--			--						
OK			ESC						

Online monitoring for battery string: when the battery pack is under the state of online discharge, uniform charge and floating charge, perform real-time online monitoring for all cells. The monitoring includes string voltage, cell voltage, charge/discharge current, monitoring time of battery string, charge/discharge capacity of battery string and etc.

2、 Discharge test setting interface:

Discharge setting						18.8v	49%	10-18-2015	09:30
Setting information									
RoomNo	0001	StringNo	01	StringNum	1				
StringType	10V-60V	CellType	--	CellNum	--				
NominalCap	100Ah	CellOrder	--	Dis.Method	Const-I				
Dis.H.R	10h			I-Descarga	10.0A				
Condic.Fin.Prueba									
UMinString		43.20V		UMinCell		--			
CellTotal		--		CellVolt.		Alarm			
C-Discharge		100Ah		T-Discharge		10:00(H:M)			
OK			ESC						
Prompt:The touch screen. please click.									

Perform discharge of constant current taking advantage of intellectualized dummy load after the battery pack is removed from system, set up the parameters of “discharge current”、 “discharge time”、 “discharge capacity”、 “final protective voltage of whole pack” and “ final protective voltage of cell”, and the tester could carry out discharge function automatically, display discharge current、 battery discharged capacity、 the whole pack voltage、 cell voltage、 discharge time and etc at real time;

### Multiple Protections & Alarms

Malfunctions	LCD prompt	beep warning
Input over-voltage	✓	✓
Reverse polarity	✓	✓
Overload	✓	✓
Overheat	✓	✓

### 电池组进行测试 Test on battery set

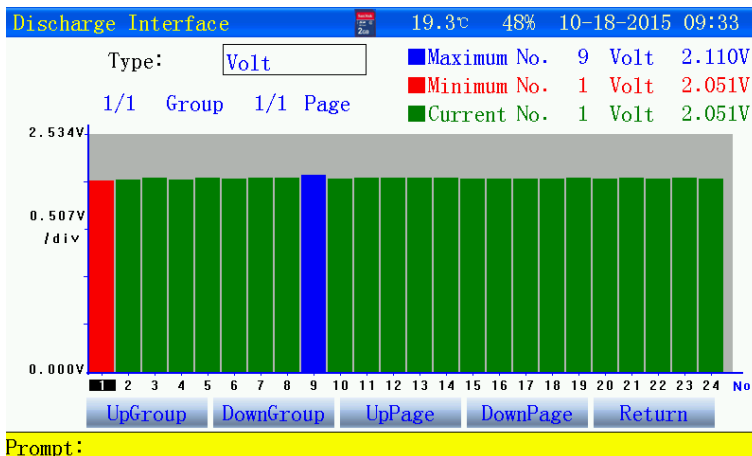
3、

Battery String voltage is 12V/24V/36V/48V/72V/80V/96V and single battery voltage is 1.2V/2V/6V/12V. Users can decide how to set single battery voltage

4、 When we do confirmation test we can set four condition of stopping discharging: ①Stop voltage of whole set battery; ②Single battery voltage stop; ③Stop discharging time;④Discharging voltage

5、 Easy to operate: All input is simple Chinese menu, humanized operation, clear procedure, every step and interface will give user brief tips avoid incorrect operation fundamentally

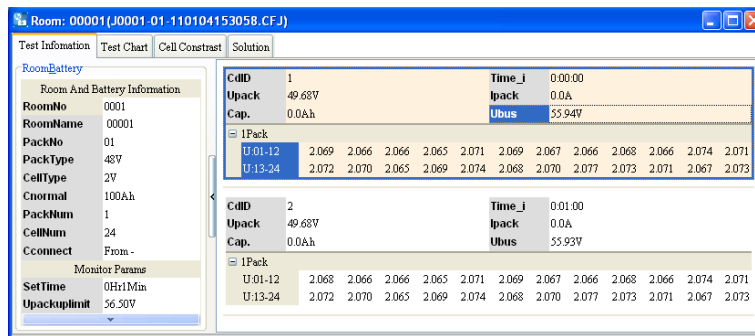
6、 *Histogram and curve analysis* The instruments can analyze according to main test function on the histogram and the curve chart. It's unnecessary to upload the result in PC.



7、 Mature correspondence function, including USB communication port and SD card connection port. Data will be transferred to PC begin the storage management. It can analyze and store historical data in long time; It's convenient, reliable and safe if we

transfer data via SD card

- 8、Tester host integrated monitoring part and power part together, and power part adopted latest hi-efficiency components
- 9、 *Powerful analyze function of PC software* Providing data management, print, analyze, count report, automatic generate test report. Amplify or minify the voltage curve for easy observation.



- 10、 The auto-test and protection function: During test if we find whole battery set or single battery have any problem test will stop automatically to avoid any further damage and completely prevent shock on the device; test can be cut off according to actual condition as well
- 11、 After test all test result will be displayed automatically and according to these data advise maintenance point

**Technical Specifications:**

Features	Specifications		
Model	FST-2000CT		
String Voltage measurement range	1~120V		
Constant discharge voltage range	2V-10V	10V-60V	60V-120V
Discharge current Range	2V: 30A; 4V: 100A; 6V: 160A	12V: 60A; 24V: 120A; 36V: 180A;48V: 200A	72V: 170A; 96V: 200A
String Voltage Resolution	0.01V		
Voltage measurement accuracy	≤±0.5%		
Cell Voltage Resolution	0.01V		
Discharge Voltage of Constance current and constant power	1-200A		
Current Measurement Resolutions	0.1A		
Cell voltage measurement type	1.2V/2V: 0-4V; 6V:0-8V; 12V: 0-15V		
Power Supply	220VAC±15% 50Hz/60Hz		
Cooling mode	Air Cooling		
Communication Mode	USB Communication port and SD Card storage		



Display	7inch Touch screen
High-Voltage insulation test	Input-The enclosure: 2200Vdc 1min Input-Output: 2200Vdc 1min Output- The enclosure: 700Vdc 1min
Safety standard	EN610950
CE Certificate	LVD: EN61010-12010; EMC:EN61326-1:2013
Work Temperature	-5~50℃
Storage Temperature	-40~70℃
Humidity	Relative humidity 0~90% (40±2℃)
Noise	<60dB
Dimensions of host tester	550(L)x360(W)x640mm(H)
Alloy Carrying case	590(L)x520(W)x740mm(H)
Net Weight	<48Kg

## Accessories lists:

No.	Name	Qty.	Unit	Remark
1	FST-2000CT	1	Unit	
2	220VAC Power cord	1	PC	
3	Discharge cable (Red+; Black-)	2	PC	
4	String voltage collection line	1	SET	
5	Cell voltage monitoring module	2	PC	
6	Cell voltage collection line	2	SET	
7	Module power cord	2	SET	
8	433Antenna	3	PC	
9	Touch Pen	1	PC	
10	SD Card	1	SET	
11	User Manual	1	PC	
12	Manufacturer certificate	1	PC	
13	Alloy carrying case	1	PC	
14	Packing list	1	PC	