

FST-110V Serial Battery Load Bank

General:

110V Battery Load Bank is specifically designed for the maintenance of the lead-acid battery discharge in the electricity sector. It is a new high-tech intelligent product that provides safe, reliable and convenient constant testing equipment for the DC system

Product Type:

Different discharge current range

String Voltage	110VDC
Discharge current Range	30A/60A/100A/150A/200A

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 120V, 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 **RS232** real time monitoring by PC 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 18.1℃ 33% 10-30-2015 16 31

Setting information					
RoomNo	0001	StringNo	01	StringNum	1
StringType	110V	CellType	2V	CellNum	55
NominalCap	100Ah	CellOrder	From -	TestTime	10:00(H:M)
Alarm-condition					
UMaxString			UMinString		
137.5V			92.5V		
UMaxCell			UMinCell		
2.400V			1.800V		
OK			ESC		

Prompt:The touch screen. please click.

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 18.8℃ 49% 10-18-2015 09:30

Setting information					
RoomNo	0001	StringNo	01	StringNum	1
StringType	110V	CellType	2V	CellNum	55
NominalCap	100Ah	CellOrder	From -	Dis.Method	Const-I
Dis.H.R	10h			I-Descarga	10.0A
Condic.Fin.Prueba					
UMinString		137.5V	UMinCell		1.800V
CellTotal		2	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;

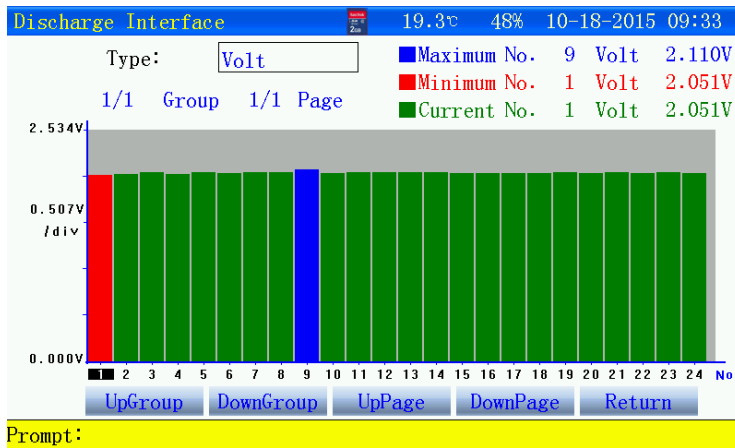
3、

Battery String voltage is 24V/48V/110V/22V/380V and single battery voltage is 2V/6V/12V.

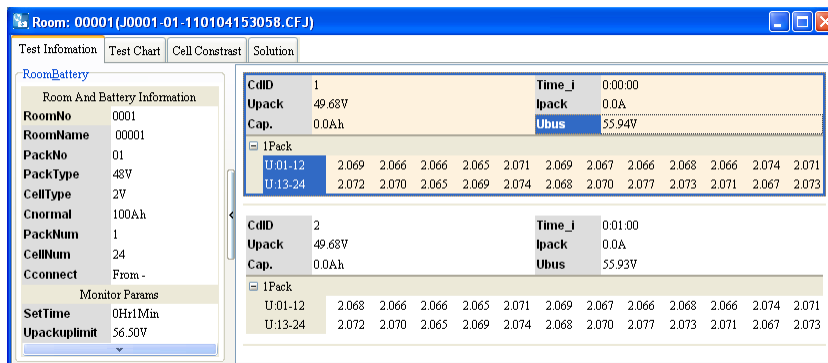
Users can decide how to set single battery voltage

- 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 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.



Room: 00001 (J0001-01-110104153058.CFJ)												
Test Information												
Room And Battery Information												
RoomNo	0001											
RoomName	00001											
PackNo	01											
PackType	48V											
CellType	2V											
Cnormal	100Ah											
PackNum	1											
CellNum	24											
Cconnect	From -											
Monitor Params												
SetTime	0H:1M:0s											
Upackuplimit	56.50V											
Solution												
CellID	1										Time_j	0:00:00
Upack	49.68V										Ipack	0.0A
Cap.	0.0Ah										Ubus	55.94V
1Pack												
U-01-12	2.069	2.066	2.066	2.065	2.071	2.069	2.067	2.066	2.068	2.066	2.074	2.071
U-13-24	2.072	2.070	2.065	2.069	2.074	2.068	2.070	2.077	2.073	2.071	2.067	2.073
2												
CellID	2										Time_j	0:01:00
Upack	49.68V										Ipack	0.0A
Cap.	0.0Ah										Ubus	55.93V
1Pack												
U-01-12	2.068	2.066	2.066	2.065	2.071	2.069	2.067	2.066	2.068	2.066	2.074	2.071
U-13-24	2.072	2.070	2.065	2.069	2.074	2.068	2.070	2.077	2.073	2.071	2.067	2.073

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: (Take 110V/60A and 110V/100A,110V/200A and 110V 300A as sample)

Features	Specifications			
	110/60	110/100	110/150	110/300
Model				
String Voltage measurement range	0~135V			
String Voltage Resolution	0.01V			
Voltage measurement accuracy	≤±0.5%			
Cell Voltage Resolution	0.01V			
Discharge current Range	2~60A	2~100A	2~150A	2-300A
Discharge Voltage of Constance current and constant power	80~135V			
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	480x225x410mm	600x250x410mm	600x225x630mm	1050x850x300
Weight	<13Kg	<15.5Kg	<25Kg	<50Kg

Accessory lists:

No.	Name	Qty.	Unit	Remark
1	FST-110/30	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	3	PC	
6	Cell voltage collection line	3	SET	
7	Module power cord	3	SET	
8	433Antenna	4	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	