

CT Series Battery Discharger & Capacity Tester

Wireless, Colored Display, Intelligent

— independent research and design, owning independent intellectual property rights



CT Main machine

◆ FUNCTIONS:

- Adopt wireless unit monitoring technology, support 2V/6V/12V unit voltage monitor
- Each wireless monitor module can test four units together at the same time, compare those each module just test one unit voltage, the needed number of module allocate just a forth, much easier for wireless connection operation.
- The current continuously adjustable, automatically keep constant. The internal discharge current automatic calculating function support calculate discharge current which is needed to setup by standard battery capacity and within the needed discharge time.
- Allow to setup four kind of closing-down threshold: battery group voltage, unit current, discharge time, and discharge capacity; if closing down, the LCD will display the cause

with alarm sound.

- Allow to merge a lot smart constant expansion module, meet the higher discharge current.
- Using aero metal electric heating for power consumption part, high electric heating transfer efficiency, high security, small, light.
- Charge current auto-calculate: the discharge parameter can be auto-calculated the group required discharge current by battery standard capacity and user's required test time, and all the capacity by battery discharged will be auto-calculated into C10.
- Discharge parameter setups in advance, allow to ex-setup no more than nine kind of discharge parameter internal, which reduce to re-setup the discharge parameter in many situations that much convenient operation. Also allow to modify any ex-setup parameter any time.
- Intelligent discrimination program, the instrument can distinguish whether the unit monitor is reach the threshold or just the clip loosen automatically, which keeps test trouble-free.
- 8M internally stored program, allow saving multi-group discharge data.
- Allow to connect PC during discharging, real-time receive the discharge data, also allow to copy the discharge data for analyses by USB to PC, and then generate report.
- Smart power supply: adopt AC & DC two ways for supply



Real-time detection of single voltage



Parameter 2008-12-12 12:12:55

PrePara 1

Capacity : 3000AH	BattSum : 024#	Modify
HourRate : 10	GroupSum : 001G	+
CurrSet : 150A	BattLows : 001#	-
CapaSet : 0100AH	SaveTime : 001M	Cancel
TimeSet : 00H30M		
BattLow : 01.80V		
GroupLow : 048.0V		

SysState: ManualStop!

Start Param1 Apply Exit

Detailed description: A screenshot of the parameter presetting interface. It shows a list of parameters for 'PrePara 1' including Capacity, HourRate, CurrSet, CapaSet, TimeSet, BattLow, and GroupLow. Corresponding summary values like BattSum, GroupSum, BattLows, and SaveTime are also displayed. The system state is 'ManualStop!'. Navigation buttons include Start, Param1, Apply, and Exit.

Presetting the parameters



Data Memory: 76%

DataFile 01/08

2008-11-18 11:19:08	Type : Discharge	Delete
2008-11-18 11:23:10	Capacity : 0500AH	
2008-11-18 11:24:45	TestCurr : 125.0A	
2008-11-18 11:25:28	TestCap : 400AH	
2008-11-18 11:26:32	TestTime : 03H10M	
2008-11-18 11:27:48	BattLow : 01.80V	DelAll
2008-11-18 11:34:02	GroupLow : 043.5V	
2008-11-18 11:50:41	BattSum : 024#	
	GroupSum : 002G	
	StopType : BattLow	

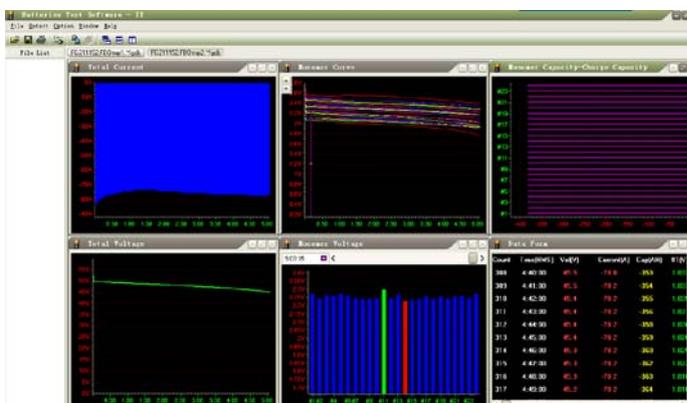
Up Down USB RS232 Exit

Detailed description: A screenshot of the data management interface. It shows a list of data files with their timestamps. Summary information for the selected file includes Type (Discharge), Capacity (0500AH), TestCurr (125.0A), TestCap (400AH), TestTime (03H10M), BattLow (01.80V), GroupLow (043.5V), BattSum (024#), GroupSum (002G), and StopType (BattLow). Navigation buttons include Up, Down, USB, RS232, and Exit.

Clear data management

◆ Smart data analyses software

- Download the discharge parameter into PC by USP
- Report paper includes single voltage, total voltage, current, capacity, data form.
- Powerful capacity forecast evaluate function, be able to evaluate the group capacity within shot time
- Display the data by column, report, and curve, also can be enlarged and minified partly, for read conveniently.
- Can general EXECL report automatically, convenient for sending or upload data.



◆ SPECIFICATIONS:

Battery Group type	48V		business hall UPS	Power station	High voltage UPS
			20~110V	220V	
TYPE	-4815CT	-4830CT	-9605CT	-2205CT	-6003CT
DC input					
Group voltage	0~60V		20~110V	98~260V	300~650V
Discharge current	0~150A Constant current	0~300A Constant current	0~50A Constant current	0~50A Constant current	0~30A Constant current
Operation	Be able to used in single, parataxis way, also can parallel with constant current model				
Protective value	<ul style="list-style-type: none"> ● input over-voltage protect, LCD cue with Boom Alarm ● battery voltage polar opposite connect protect, LCD cue with Boom Alarm ● over-current protect, LCD cue with Boom Alarm ● 85°C over head protect, LCD cue with Boom Alarm 				

Unit voltage collection	Adopt wireless unit monitoring technology, support 2V/6V/12V unit voltage monitor. Each wireless monitor module can test four units together at the same time, compare those each module just test one unit voltage, the needed number of module allocate just a forth, much easier for wireless connection operation.			
Control accuracy	discharge current $\leq \pm 0.5\%$; group-terminal voltage $\leq \pm 0.5\%$; unit voltage: $\leq \pm 0.5\%$			
PC communication	RS232 interface			
Data stored capacity	8Mbit FLASH			
Operation circumstance				
Rejection of heat	forced air cooling			
Temperature	working range: $-5\sim 50^{\circ}\text{C}$; stored: $-40\sim 70^{\circ}\text{C}$			
Humidity	RH: $0\sim 90\%$ ($40\pm 2^{\circ}\text{C}$)			
Above sea level	Normal sea level: 4000 meter			
Noise	$< 60\text{dB}$			
Working power				
Voltage	single-phase three wire: 220V ac ($-20\%\sim +30\%$), frequency: 45~65Hz; -4815CT even can be supplied power by tested battery group (DC18~56V), it is AC /DC two ways for power supply			
Strength test	input-cabinet: 2000Vdc 1min input-output: 2000Vdc 1min output-cabinet: 700Vdc 1min			
Security	meet EN610950			
Connection				
AC input	power cord, suitable for $1\sim 1.5\text{ mm}^2$ cable			
DC input	-6003C: $\Phi 26.5$ cable quick connect plug (red-positive, back-negative), 16mm 2 cable Others: $\Phi 50.0$ cable quick connect plug (red-positive, back-negative), 35mm 2cable			
Mechanical Character				
Size(mm)	508×223×372	628×223×372	508×223×372	628×223×372
Weight(kg)	13	18	13	18