

9841 Battery Charge and Discharge Test System



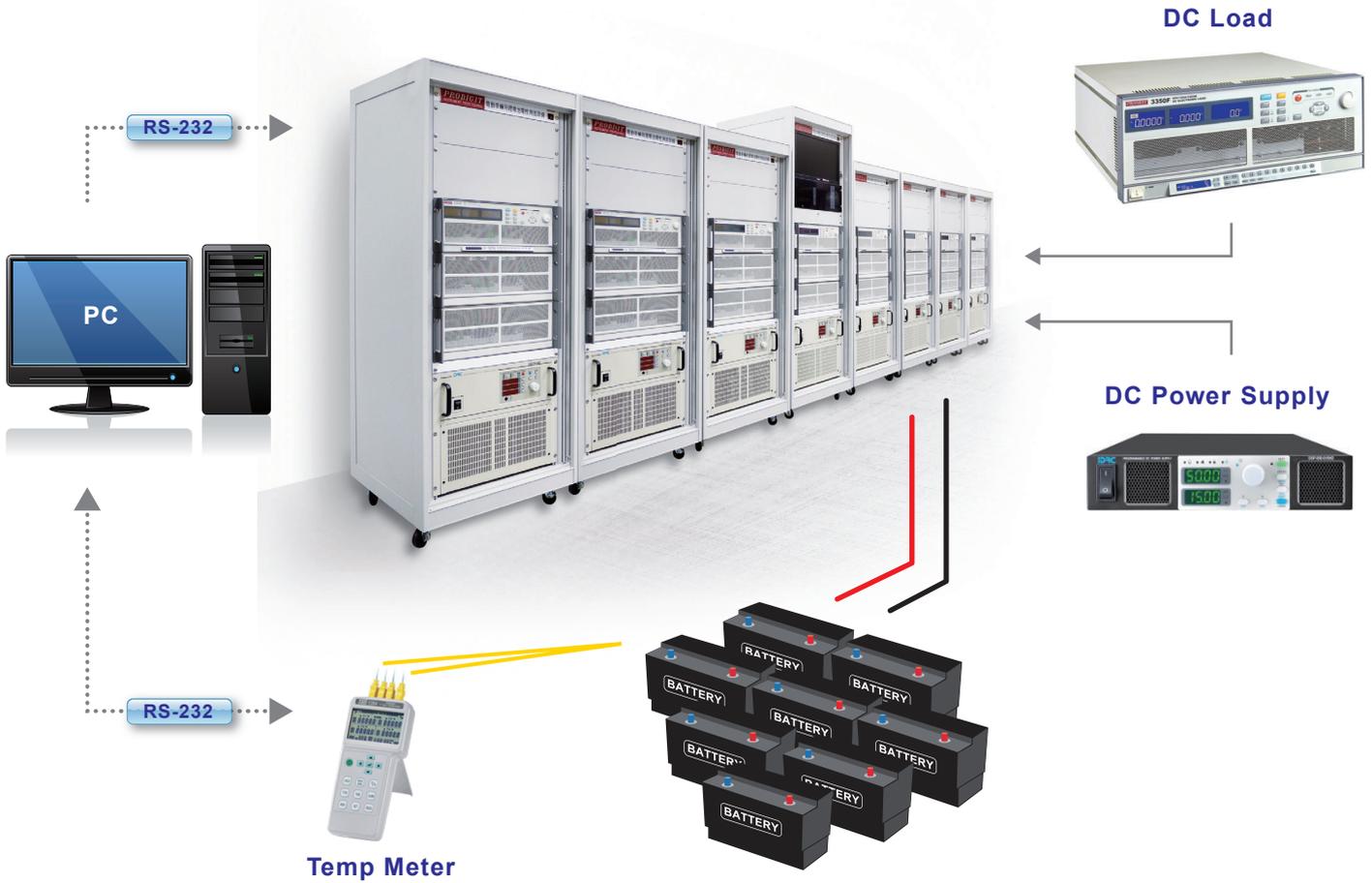
Features

- Charge Test
- CP-Charge Test
- Discharge Test
- Capability Test (AH)
- Power Consumption Test (KWH)
- Cycle Life Test

Descriptions

- Provide user define Test Step
- Easy user interface
- Measure Voltage, Current, Power, KWH, AH, Temperature, Reference Voltage
- Accuracy Measure Time
- Easy to see now test progress
- Can cycle test
- Provide Charge, Discharge, Suspend, FOR, LOOP Mode Select
- When Charging, set the stop current to stop charging when fully charged so as to avoid overcharging that will damage the battery. When Discharge, set the stop voltage to stop discharge when discharging to lowest so as to avoid over-discharging that will damage the battery.
- The test result will be stored to ACCESS data
- The test result will be saved to EXCEL CSV format
- When test result data are excess 32000 data, it will be separated automatically during transfer to EXCEL file
- The maximum test procedures you can set are up to 100.

Hardware



Test Example

The Start Screen

Prodigit 9841-01 電動車輛用鋰電池電性測試系統 R1.0

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	Suspend			1		
2	DisCharge	CC	2.3	60	0	1
3	Suspend			1		

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	250	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	1
5	Suspend			0.1		
6	LOOP					

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	100	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	0
5	Suspend			0.1		
6	LOOP					

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	500	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	1
5	Suspend			0.1		
6	LOOP					

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	250	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	1
5	Suspend			0.1		
6	LOOP					

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	250	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	1
5	Suspend			0.1		
6	LOOP					

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR			1	250	
2	Charge	1	0.1	1	0	1
3	Suspend			0.1		
4	DisCharge	CC	0.1	1	0	1
5	Suspend			0.1		
6	LOOP					

Measurement Item: Voltage KWH Current AH Power Temperature

Measure Time: 3 S

Additional Test Procedure

Addition Step - Channel 1
Action Mode : Charge

Charge Setup
Charge Voltage : 0 V
Charge Current : 0 A
Stop Time : 0 Minutes
Stop Current : 0 A
Stable Time : 0 Seconds

OK
Cancel

Modify Channel - 2 Step - 3
Action Mode : Suspend

Suspend Setup
Suspend Time : 0.1

OK
Cancel

Modify Channel - 3 Step - 4
Action Mode : DisCharge

DisCharge Setup
DisCharge Mode : CC
DisCharge Current : 0.1 A
Stop Time : 1 Minutes
Stop Voltage : 0 V
Stable Time : 1 Seconds

OK
Cancel

Modify Channel - 5 Step - 1
Action Mode : FOR

FOR Setup
Times : 250

OK
Cancel

Modify Channel - 4 Step - 2
Action Mode : CP-Charge

CP-Charge Setup
Charge Power : 30 W
Charge Current : 1 A
Stop Time : 1 Minutes
Stop Current : 0.1 A
Stable Time : 1 Seconds

OK
Cancel

Modify Channel - 6 Step - 6
Action Mode : LOOP

LOOP Setup

OK
Cancel

System Setup

System Setup

Test Channel Count : 8

Temperature Meter Count : 4

Device 1 COM : 18

Device 2 COM : 19

Device 3 COM : 20

Device 4 COM : 21

Save
Cancel

Connection Setup

Connection Setup - Channel 1

Load - COM : BaudRate :

Power - COM : BaudRate :

Temperature CH -

<input checked="" type="checkbox"/>	01	<input checked="" type="checkbox"/>	02	<input type="checkbox"/>	03	<input type="checkbox"/>	04
<input type="checkbox"/>	05	<input type="checkbox"/>	06	<input type="checkbox"/>	07	<input type="checkbox"/>	08
<input type="checkbox"/>	09	<input type="checkbox"/>	10	<input type="checkbox"/>	11	<input type="checkbox"/>	12
<input type="checkbox"/>	13	<input type="checkbox"/>	14	<input type="checkbox"/>	15	<input type="checkbox"/>	16

OK

Cancel

Start Test

Channel - 1 - Load Error

Step	Action Mode	Mode / Volt	Value	StopTime(m)	StopValue	Stable(s)
1	FOR				1500	
2	Charge	3.3	2.3	0.1	0	1
3	Suspend			0.1		
4	DisCharge	CC	2.3	0.1	0	1
5	Suspend			0.1		
6	LOOP					

SN.: 201108291

Measurement Item

Voltage KWH

Current AH

Power Temperature

Measure Time : 1 S

Review test data

Channel - 1

Measurement Value

2011-08-29 15:43:59

Voltage	3.28862	Temperature	25.2	25.4
Current	0.10975			
Power	0.3609260			
KWH	.36097357			
AH	.17764000			

SN.: 201108291

Measurement Item

Voltage KWH

Current AH

Power Temperature

Measure Time : 1 S /

Review test records

Prodigit CSV Viewer MainForm

Select CSV File:

Filter

Action: Time Range: Cycle View

Show Count:

X - Scale: Y - Scale: Sub Y - Scale:

Max: Min:

Max: Min:

Max: Min:

CSV Information

Log Count:

Print Wave

View

Real time monitoring the test waveform

