

9834 Operation Manual	檔 案 名 稱 : 9834-501
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修 訂 管 制						
版次	修 訂 日 期	修 訂 內 容	修 訂 頁 次	修 訂 者	審 核	核 准
C	2015/09/23	New Release	ALL	Curt		
D	2023/8/18	Add Sequence Load	ALL	Curt		
E	2024/3/20	Modify	ALL	Curt		
F	2024/05/22	Modify	ALL	Curt		
G	2024/09/23	Modify	ALL	Curt		

表 單 編 號 : 160-68 rev:1.0

9834 Operation Manual

9834 Operation Manual Menu

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一、 Introduction

The main functions of the 9834 software are used to measure control, edit test steps and receive test data. The test step can be set to test, and the test can be started or stopped, or when it is stopped, the system will automatically set DC Load to OFF, allowing users to operate with peace of mind to avoid the risk of electric shock

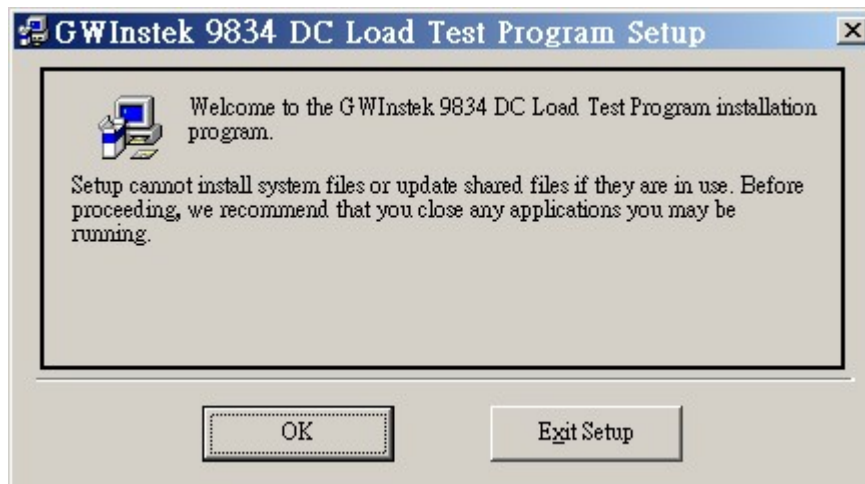
二、 System requirements

1. Personal computer
 - a. Operation System : Windows 7 or above
 - b. Display Card : resolution 1280*800
 - c. Display : 18.5" resolution 1280*800
 - d. Mouse
 - e. Keyboard
 - f. Hard Disk Space : above 500Gbytes
 - g. Memory : above 4Gbytes
2. GWInstek DC Electronics Load , used for function

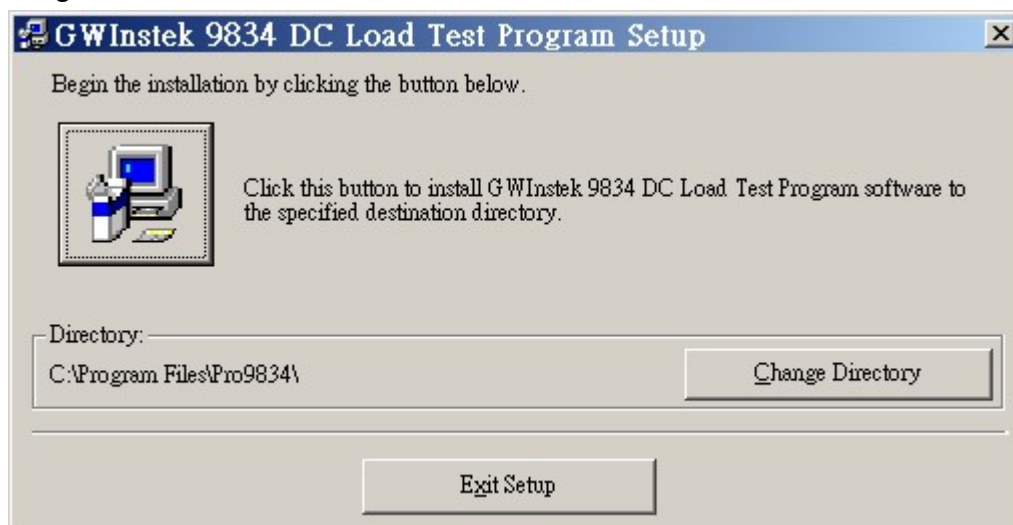
三、 9834 Software Installation

9834 software has a total of 1 CD, the installation steps are as follows

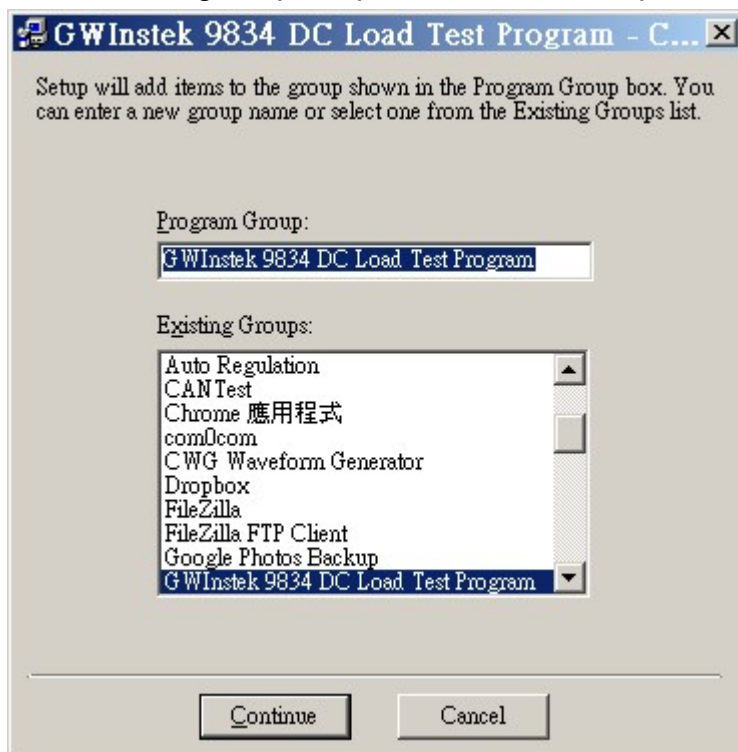
1. Boot the computer to the Windows screen.
2. Insert the CD into the root directory and execute Setup.exe, the following screen will appear.



3. It is recommended to change the directory to D:\Pro9834 and follow the installation diagram to install.



4. After selecting the path, press "Continue" to proceed with the installation.



5. After the installation is complete, the following screen will be displayed, please press "OK".



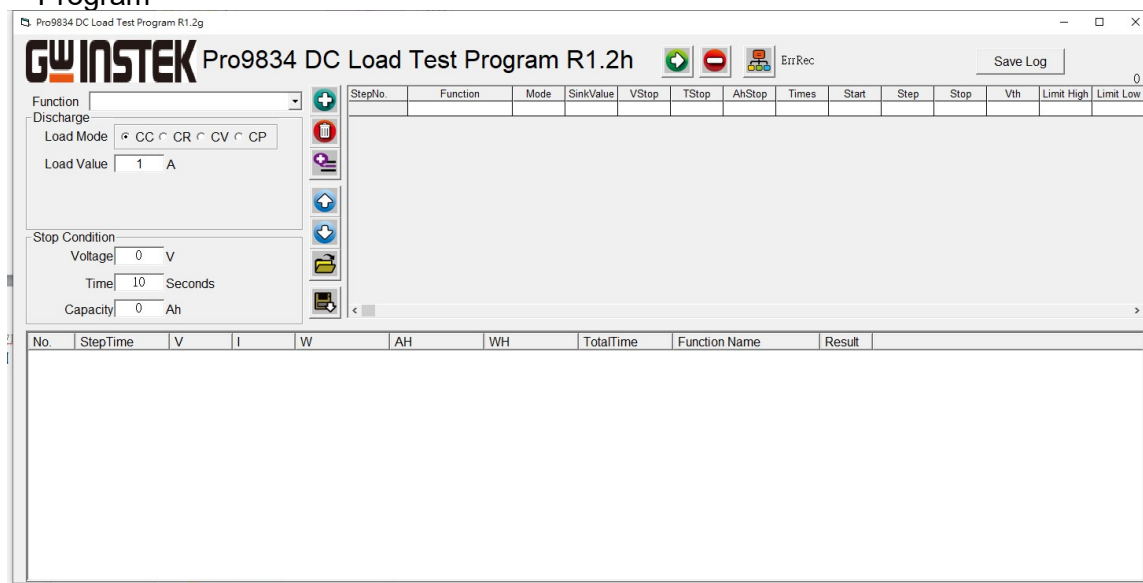
6. Press the start button on the Windows screen → select GWInstek 9834 DC Load Test Program in the program → press GWInstek 9834 DC Load Test Program to execute.










四、 9834 operating instructions




1. Main page

- a. Run the assembly\GWInstek 9834 DC Load Test Program\GWInstek 9834 DC Load Test Program



2. Main screen function

- a.  **START** : Start the test, and start recording the test data in the file, the file name is the same as the SN serial number.
- b.  **STOP** : Stop the test, AC/DC Load is OFF. When the test is restarted, it will restart from the beginning.
- c.  **Connect Setup** : Device connection setting, which can be set for AC/DC Load.
- d.  **Addition** : A new test step is added after the last test step, up to 320 test steps.
- e.  **Delete** : Delete a test step.
- f.  **Insert** : Insert a test step after the currently selected test step, up to 320 test steps.
- g.  **Move Up Step** : Move up the designated Step.

- h.  Move Down Step : Move down the designated Step.
- i.  Open Test Step : Load an existing test step file.
- j.  Save Test Step : Save the test step settings to the specified file.
- k. Measurement Value
 - A. Step Time : NowTime
 - B. V : Output Voltage
 - C. I : Output Current
 - D. W : Power
 - E. Ah : Amp hour
 - F. Wh : Watt hour
 - G. TotalTime: No Time
 - H. Function Name : Work function name
 - I. Result : Test Result. (OCP, OPP)



3. Connection setting page

- a. Connect Mode
 - RS-232/USB
 - GPIB
 - LAN
- A. RS-232 Setup

Connect Setup

Load Connection Mode

☒ RS-232/USB ☐ GPIB ☐ LAN

RS-232 Setup

Baudrate: 115200

HandShake: comRTS

COM Port: 3

AFG Enable ☒

AFG Connection Mode

☒ RS-232/USB ☐ GPIB ☐ LAN

AFG RS-232 Setup

Baudrate: 115200

HandShake: comRTS

COM Port: 4

Default Path: E:\Pro9834

Save Cancel

Baud Rate : Communication rate, default is 115200 °

HandShake : comRTS

COM : RS232 communication port, default is 1

AFG Enable : Use Arbitrary Function Generator

B. GPIB

Load Connection Mode

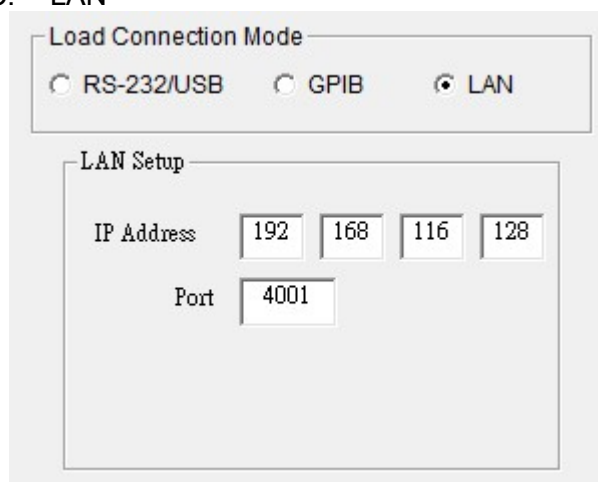
☐ RS-232/USB ☒ GPIB ☐ LAN

GPIB Setup

Address: 5

Address : default is 5

C. LAN



The image shows a 'LAN Setup' dialog box. At the top, there is a section titled 'Load Connection Mode' with three radio buttons: 'RS-232/USB', 'GPIB', and 'LAN'. The 'LAN' radio button is selected. Below this is a section titled 'LAN Setup'. Inside this section, there are two rows of input fields. The first row is labeled 'IP Address' and contains four separate input boxes with the values '192', '168', '116', and '128'. The second row is labeled 'Port' and contains a single input box with the value '4001'.

IP Address : default is 192.168.16.128

Port : default is 4001

- b. Save : Save the connection settings
- c. Cancel : Cancel the Setting

4. Test Function

a. Discharge

The screenshot shows a software window for configuring a Discharge test. At the top, a dropdown menu labeled 'Function' is set to 'Discharge'. Below this, the 'Discharge' section contains three controls: a 'Load Mode' section with four radio buttons (CC, CR, CV, CP), where 'CC' is selected; a 'Load Value' section with a text box containing '1' and a unit label 'A'; and a 'Stop Condition' section with three rows: 'Voltage' with a text box containing '0' and a unit label 'V', 'Time' with a text box containing '10' and a unit label 'Seconds', and 'Capacity' with a text box containing '0' and a unit label 'Ah'.

Load Mode : select mode CC,CR,CV,CP

Load Value : set sink value

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

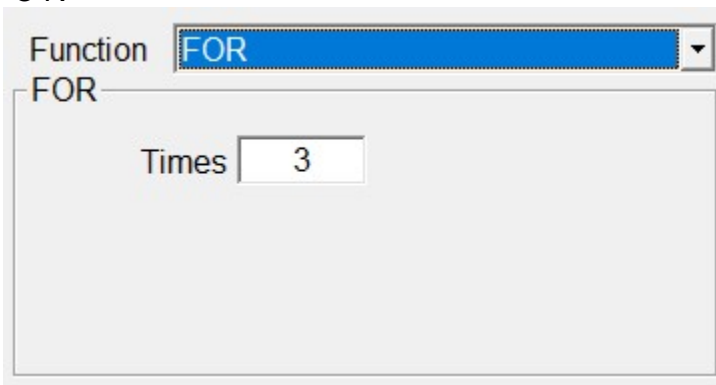
b. Rest

The screenshot shows a software window for configuring a Rest test. At the top, a dropdown menu labeled 'Function' is set to 'Rest'. Below this, the 'Rest' section is mostly empty. At the bottom, a 'Stop Condition' section contains one row: 'Time' with a text box containing '10' and a unit label 'Seconds'.

Stop Condition:

Time : work time

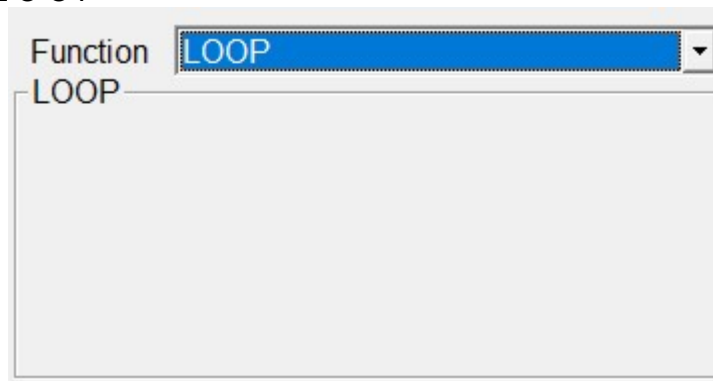
c. FOR



The screenshot shows a configuration window for the 'FOR' function. At the top, there is a label 'Function' followed by a dropdown menu containing the word 'FOR'. Below this, the word 'FOR' is also displayed as a label. Underneath, there is a label 'Times' followed by a text input field containing the number '3'.

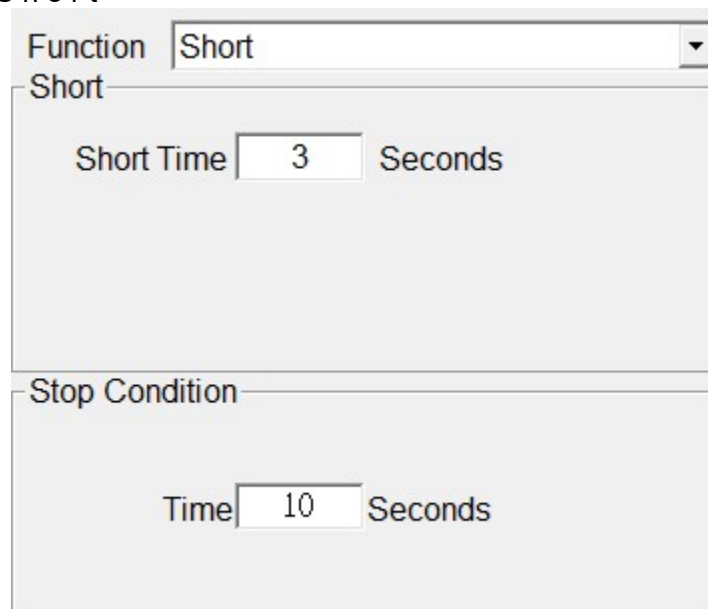
Times : loop times

d. LOOP



The screenshot shows a configuration window for the 'LOOP' function. At the top, there is a label 'Function' followed by a dropdown menu containing the word 'LOOP'. Below this, the word 'LOOP' is also displayed as a label. The rest of the window is empty.

e. Short

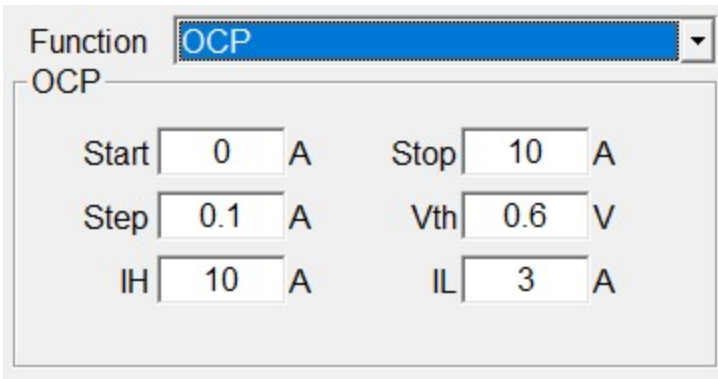


The screenshot shows a configuration window for the 'Short' function. At the top, there is a label 'Function' followed by a dropdown menu containing the word 'Short'. Below this, the word 'Short' is also displayed as a label. Underneath, there is a label 'Short Time' followed by a text input field containing the number '3' and the word 'Seconds'. Below this section, there is a label 'Stop Condition'. Underneath that, there is a label 'Time' followed by a text input field containing the number '10' and the word 'Seconds'.

Stop Condition:

Time : short time

f. OCP



Function: OCP

OCP

Start	0	A	Stop	10	A
Step	0.1	A	Vth	0.6	V
IH	10	A	IL	3	A

Start : start current value

Stop : stop current

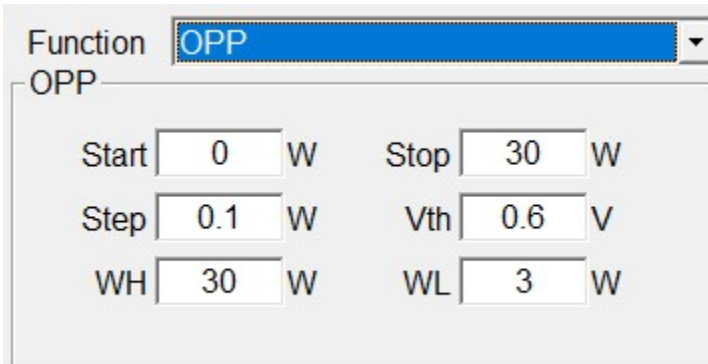
Step : add step current

Vth : voltage threshold

IH : DAM upper limit

IL : DAM lower limit

OPP



Function: OPP

OPP

Start	0	W	Stop	30	W
Step	0.1	W	Vth	0.6	V
WH	30	W	WL	3	W

Start : start power value

Stop : stop power

Step : add step power

Vth : voltage threshold

WH : DWM upper limit

WL : DWM lower limit

g. Dynamic

Function: **Dynamic**

Dynamic

Load Mode: ☒ CC ☐ CR ☐ CP

High: A Low: A

T-High: ms T-Low: ms

RISE: mA/us FALL: mA/us

Stop Condition

Voltage: V

Time: Seconds

Capacity: Ah

Load Mode : select CC,CR,CP

High : high value

Low : low value

T-High : high time

T-Low : low time

RISE : rise value

FALL : fall value

h. Normal

Function: **Normal**

Normal

Load Mode: ☒ CC ☐ CR ☐ CV ☐ CP

Sink Value: A

Stop Condition

Voltage: V

Time: Seconds

Capacity: Ah

Load Mode : select mode CC,CR,CV,CP

Load Value : set sink value

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

i. Battery RAMP(Available for specific model)

Function **Battery RAMP**

Battery RAMP

Total Step Start A

Step	1	2	3	4	5	6	7	8
CC(A)								
Time(s)								

< >

Load Off Voltage V Repeat

Total Step : total step

Start : start current value

Load Off Voltage : load off voltage value

Repeat : repeat times

j. Battery CC+CV(Available for specific model)

Function **Battery CC+CV**

Battery CC+CV

Sink Value A

Add CV Value V

Stop Condition

Voltage V

Time Seconds

Capacity Ah

Sink Value : current value

Add CV Value : add CV value

Time : work time

k. Battery CP+CV(Available for specific model)

Function **Battery CP+CV**

Battery CP+CV

Sink Value W

Add CV Value V

Stop Condition

Voltage V

Time Seconds

Capacity Ah

Sink Value : power value

Add CV Value : add CV value

Time : work time

l. Battery Discharge CC Available for specific model)

Function **Battery Discharge CC**

Battery Discharge CC

Current Value A

Stop Condition

Voltage V

Time Seconds

Capacity Ah

Current Value : set sink value

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

m. Battery Discharge CP(Available for specific model)

Function **Battery Discharge CP**

Battery Discharge CP

Power Value W

Stop Condition

Voltage V

Time Seconds

Capacity Ah

Power Value : set sink value

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

n. Battery Cycle Life(Available for specific model)

Function **Battery Cycle Life**

Battery Cycle Life

Step	CCH	CCL	THigh	TLow	Cycle
1					
2					
3					

Load Off Voltage V Repeat

CCH : sink high value

CCL : sink low value

Thigh : high time

TLow : low time

Cycle : cycle times

Load Off Voltage : load off voltage value

Repeat : repeat times

o. CV with Current Limit(Available for specific model)

Function **CV with Current Limit**

CV with Current Limit

Current Limit A

CV Value V

Stop Condition

Time Seconds

Current Limit : current limit value

CV Value : CV value

Time : work time

p. CV with Power Limit(Available for specific model)

Function **CV with Power Limit**

CV with Power Limit

Power Limit W

CV Value V

Stop Condition

Time Seconds

Power Limit : power limit value

CV Value : CV value

Time : work time

q. Sequence Load(Available for specific model)

Function: Sequence Load

Sequence Load

Total Step: 0

Step	1	2	3	4	5	6	7	8
CC(A)								
Time(ms)								

Type: CC Vth: 0 V

Total Step : total step

CC(A) : sink current value

Times(ms) : 2-16 step is 0.02ms ~ 999000ms,
but first step is 2ms ~ 65535ms

Type : CC,CP

Vth : voltage threshold

r. Sine Wave Dynamic(Available for specific model)

Function: Sine Wave Dynamic

Sine Wave Dynamic

I_DC: 8 A

I_AC: 8 A

Freq: 1000 Hz

Stop Condition

Voltage: 0 V

Time: 10 Seconds

Capacity: 0 Ah

I_DC: Offset

I_AC: Amplitude

Freq: Frequency

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

s. CC Dynamic Sweep(Available for specific model)

Function CC Dynamic Sweep

CC Dynamic Sweep

I_DC 8 A DWell 500 us

I_AC 8 A Rise/Fall 100 us

Freq 1000 Hz Duty 50 %

Stop Condition

Voltage 0 V

Time 10 Seconds

Capacity 0 Ah

I_DC: Offset

I_AC: Amplitude

Freq: Frequency

Dwell: Width Time

Rise/Fall: Rise and Fall Time

Duty: Duty Cycle

Stop Condition:

Voltage : stop voltage

Time : work time

Capacity : Adding Capacity Ah

5. Start Test

Pro9834 DC Load Test Program R1.2g

GWInstek

Pro9834 DC Load Test Program R1.2h

3316G

Save Log

Function

Discharge

Load Mode

CC

CR

CV

CP

Load Value

1

A

Stop Condition

Voltage

0

V

Time

10

Seconds

Capacity

0

Ah

StepNo.

Function

Mode

SinkValue

VStop

TStop

AhStop

Times

Start

Step

Stop

Vth

Limit High

Limit Low

1

Discharge

CC

1

0

10

0

No.	StepTime	V	I	W	AH	WH	TotalTime	Function Name	Result
1	10:50:12	+0.0000	+0.0000	0	0	0	2024/09/23 1...	Discharge	
2	10:50:13	+0.0000	+0.0000	0	0	0	2024/09/23 1...	Discharge	
3	10:50:14	+0.0000	+0.0000	0	0	0	2024/09/23 1...	Discharge	
4	10:50:15	+0.0000	+0.0000	0	0	0	2024/09/23 1...	Discharge	