

# 35875-TE

## DC Load-Battery Tester

### GENERAL SPECIFICATIONS

Input Voltage: 5.0-30.0VDC (Polarity protected)  
 Load Voltage: 1.5-25.0VDC (Polarity protected)  
 Load Current: 0.00-5.00A 0.01A Resolution  
 Load Power: 35W Max  
 Current Regulation:  $\pm(1\%+3\text{digits})$   
 Voltage Regulation:  $\pm(0.5\%+1\text{digit})$   
 Over Voltage protection (OVP): default 25.2V (Adjustable)  
 Over Current protection (OCP): default 5.10A (Adjustable)  
 Over Power protection (OPP): default 35.5W (Adjustable)  
 Over Temperature protection (OTP):  $\sim 80^{\circ}\text{C}$  (Fixed)  
**NOTE:** Display will flash & display the Fault; i.e. OVP, OCP  
 Low Voltage protection (LVP): default 1.5V (Adjustable)  
**NOTE:** For Battery Discharge Test:  
 Setting the LVP value can prevent battery over discharge  
 Operating Temp:  $-40$  to  $\sim 85^{\circ}\text{C}$   
 Auto Start Fan when the power is greater than 10W or the temperature  
 is greater than  $40^{\circ}\text{C}$   
**L:** 79mm **W:** 43mm **D:** 56mm **WT:** .3

### NOTE:

**The ON/OFF Button is Not A Power Button  
 It Only Connects the Tester To The Load**

### A: Powered ON:

The electronic load automatically saves the ON/OFF status before shutting down and acts as the initial state of the next power-up.

### B: Discharge Capacity and Discharge Time:

1: Discharge Capacity: Tester begins to count when the load current value is  $>$  zero, Detects when the load current drops to zero, terminates the discharge process and the count ends.

2: Discharge Time: Tester begins to count when the load current value is  $>$  zero, Detects when the load current drops to zero, terminates the discharge process and the count ends.

### C: Set the Maximum Capacity (OAH) & Maximum Discharge Time (OHP):

1: Set maximum Capacity (OAH): When the OAH function is enabled; if the load discharge capacity value exceeds the maximum capacity value setting, the electronic load automatically stops, the LCD flashes "OAH". When the OAH alarm is removed, the capacity statistics are automatically reset

2: Set the maximum discharge time (OHP): when the OHP function is enabled, if the load running time value exceeds the maximum discharge time value setting, the electronic load automatically stops, the LCD flashes "OHP". When OHP alarm is removed, the time statistics are automatically reset.

**Note:** When the OAP and OHP function are turned off, the electronic load will record the Discharge Capacity and Discharge Time, after turning on the OAH and OHP function, the electronic load will stop working when it reaches the setting value; when the OHP function is turned on, the running time of the electronic load is under the countdown mode.

OAP and OHP function, can be used to achieve unattended power aging testing.

### D. Data Function:

Divided into "DAT0" & "DAT1"

DAT0: Flashing shows only the capacity value and running time of the previous test and does not accumulate;

DAT1: Flashing shows the capacity value and running time of the previous test and automatically accumulates during further tests

### A: The operation interface operation instructions:

1: When the electronic load is powered on, it enters the Operating Mode, which is used to connect the Tester to the Load by a short press of the "ON/OFF" button, and to adjust the current in real time by rotating the digital potentiometer/switch;

2: Short press the digital potentiometer/switch to change the displayed function (current/power/capacity/time).

**Note:** In any display Mode, rotating the digital potentiometer will automatically switch to the current display mode;

3: In the current display Mode, a long press  $>3\text{sec.}$  of the "ON/OFF" button will turn the Data Lock function on or off.

If the Data Lock function is turned on, the locking symbol "l-" will be displayed in front of the current reading; and you cannot adjust the load current by rotating the digital potentiometer.

4: In the capacity/time Mode, long press "ON/OFF" button to reset the corresponding capacity/time data.

Input Load Voltage (DC1.5- 25V), Display "IN"  
 Digital potentiometer/Switch  
 Short press to switch display,  
 Long press to set parameters



Load Voltage  
 Displays: Load Current  
 Power, Capacity and  
 Discharge Time  
 "ON/OFF" button to turn load  
 ON or OFF



BATTERY UNDER TEST +  
 TESTER POWER 5-30VDC -



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## DC Load-Battery Tester

### NORMAL OPERATIONAL MODE

Short Press on Digital Potentiometer To Step Through Readings



**CURRENT**



**POWER**



**CAPACITY**



**TIME**

### SET MODE

Long Press >3sec. Digital Potentiometer



**SET CAPACITY**



**SET DISCHARGE TIME**



**SET OVER VOLTAGE**  
Default 25.2V



**SET OVER CURRENT**  
Default 5.10A

**A:** In the normal Operating Mode, long press >3sec of the digital potentiometer/switch to enter the Set Mode.

“SET” will appear at the left of second LCD line

**B:** Short press the digital potentiometer to step through the parameters that you want modified. (OAH,OHP,OVP,OCPP,OPP, LVP)

**1:** Rotating the digital potentiometer will adjust the parameter values, Clockwise to increase, Counterclockwise to decrease.

**NOTE:** In the Maximum Capacity (OAH) & Maximum Discharge Time (OHP) set Mode, short press the “ON/OFF” button to select the corresponding function of enable/disable, if disabled, the LCD displays “----”;

**C:** In the Maximum Capacity (OAH) parameter Mode, short press “ON/OFF” button to select the capacity range. NOTE Decimal point position (9.999Ah/99.99Ah/999.9Ah/9999Ah)

Rotate the digital potentiometer to adjust the parameter.

**D:** Maximum Discharge Time (OHP), the second line will display “—:—”. Press “ON/OFF” button to set hours and minutes parameters and then press the digital potentiometer to set value

**E:** Data Logging  
Divided into “DAT0” & “DAT1”

DAT0: Flashing shows only the capacity value and running time of the previous test and does not accumulate.

DAT1: Flashing shows the capacity value and running time of the previous test and automatically accumulates during further tests

**E:** To Exit & Save settings, long press >3sec. the digital potentiometer/switch



**SET OVER POWER**  
Default 35.5W



**SET LOW VOLTAGE**  
Default 1.5V



**DATA LOGGING**

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