



## Specification for Portable Laptop Battery Detector

### Basic Parameters

**Dimensions:** 206 x 140 x 66 mm

**Unit weight:** 320 g

**Input voltage:** DC 19V

**Maximum charge current for each channel:** 3A

**Display way:** Large screen LCD with white backlight + double-color LED

**Charge mode:** constant current / constant voltage

**Discharge mode:** constant current

**Standby power consumption:**  $\leq 1W$

**Working temperature:**  $0^{\circ}C \sim 40^{\circ}C / 20\% \sim 90\%$  RH(Non Condensing)

**Storage temperature:**  $-20^{\circ}C \sim 65^{\circ}C / 10\% \sim 95\%$  RH(Non Condensing)

**Maximum charge time:** 8 hours

**A set of product includes:** A detector, an adapter, 13 connectors, 10 wires and 10 jumpers

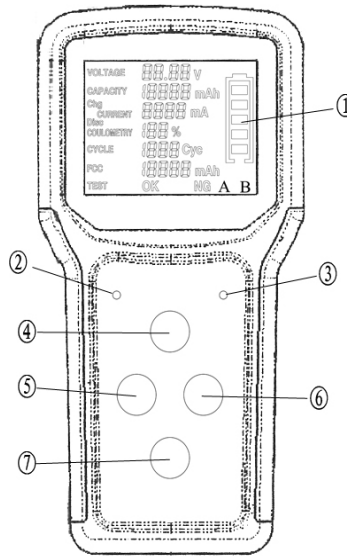
### Functions

- Two independent channels: can be used singly or be used simultaneously
- Battery recognition function: read battery information from battery cell
- With the repair function of zero voltage
- Intelligent protection against over-current, over-voltage, over-charge, over-heat and so on
- Active heat-dissipating
- Suitable for over 95% of laptops in market with the separate connector

### Structure profile

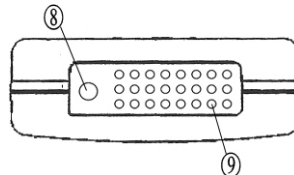
#### Panel details

#### The front panel



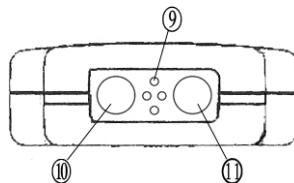
- ① Large screen LCD with white backlight
- ② LED status indication for A channel
- ③ LED status indication for B channel
- ④ Backlight switch button
- ⑤ Battery test button
- ⑥ Battery charge control button
- ⑦ Toggle button for A/B channels

**The top panel:**



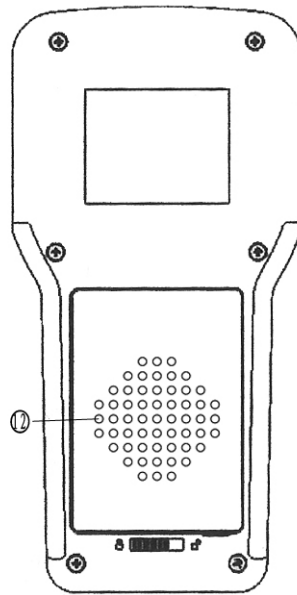
- ⑧ DC input 19V6A
- ⑨ Heat dissipation holes

**The bottom panel:**



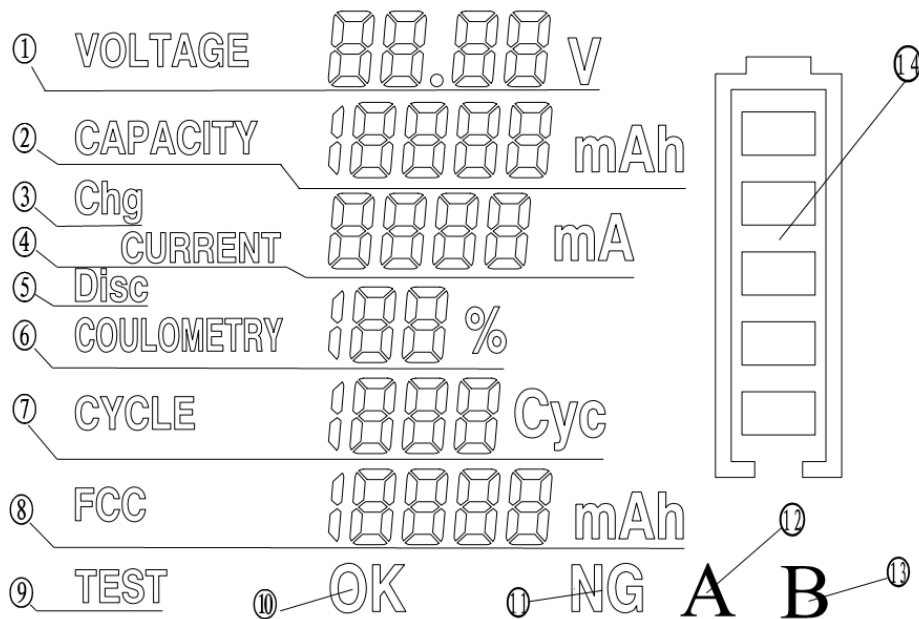
- ⑩ Interface for laptop battery of A channel
- ⑪ Interface for laptop battery of B channel

**The back panel:**



⑫ Heat dissipation holes

**Profile of LCD display**



- ① Battery voltage
- ② Battery current capacity
- ③ Charge indicating
- ④ Charge/discharge current
- ⑤ Discharge indicating
- ⑥ Current capacity percentage
- ⑦ Charge/discharge cycle count
- ⑧ Battery total capacity



- ⑨ Test indicating
- ⑩ Test successful indicating
- 11 Test fail indicating
- 12 Operate the A channel
- 13 Operate the B channel
- 14 Battery status bar

### **LED indicating**

**Red light:** Charge or test in progress

**Green light:** Charge completed

## **Charge instruction:**

### **Normal Working Condition:**

LCD backlight goes on and tests itself after switching on. The charger reads the battery information of A channel or B channel, and then the LCD screen shows the related battery information, such as battery voltage, capacity percentage, battery cycle count. Users can press the toggle button to switch A/B channel.

Pressing the battery charge control button, the detector begins to charge up the one battery or two batteries. At this time, the LED light of the related channel is red, the charge indicating flashes and the battery status bar keeps dynamic.

After finishing power supply, the LED light of the related channel is green, the battery status keeps full and the capacity percentage indicates 100%.

### **Activate charging condition:**

LCD backlight goes on and tests itself after switching on. The charger can not read the battery information and LCD screen can not show any battery information.

Maybe the wiring is not connected well or correctly. After checking and confirming the connection well and correctly, users can try to activate charging. Five seconds later after pressing the battery charge control button, if LCD screen still can not show any battery information, it means the battery has been damaged and can not be repaired; If LCD screen shows battery information, it means the battery has been activated and the device enters into the normal working condition.

## **Test function:**

Test function can charge or discharge one or two batteries for a short time.

After LCD screen shows battery information, users can press the battery test button. During the first 20 seconds, the detector charges the battery, and during the next 20 seconds it begins to discharge the battery. After all this, the test result will be reported on LCD screen.

“OK” means the battery is good.

“NG” means the battery is damaged.

## **Charging Demo**



**New Giant (Hong Kong) Limited**  
**Shenzhen Runfeng Electronic Technology Co.,Ltd**

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### **Definition of the conducting wires:**

**Red:** POWER+  
**Black:** POWER-  
**Coffee:** CLOCK  
**Orange:** DATA

### **Contact Information**

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