

【Screen display】

The unit will start to work when the power is within the normal range, then the screen will display Logo for 1 second and enter into the testing interface. All data will be zeroed.

【Screen illustration】

The measurement screen displays Amps, Volts and Watts continuously, all the measured values are displayed at "Data-Queue" in the lower left corner of the screen in sequence. The interval time between each cycle is 1 seconds. All types of values are identified by their units (Ah,Wh,Ap,Vm,Wp). And the data update in every 0.5 second on the screen.

The layout of measurement screen includes Amps, Volts, Watts and Data-Queue.

Data-Queue can show Vm, Ah, Ap, Wp, Wh and time in sequence.

【Voltage & Minimum Voltage】

The displayed voltage is real-time voltage. It set to be updated interval. The "Vm" displayed at "Data-Queue" is the minimum voltage.

【Current & peak current】

The displayed current is real-time current. The "Ap" displayed at Data-Queue is maximum current. To avoid overheating, please do not measure for a long time when the current is beyond 100A.

【Power & peak power】

The displayed power is real-time power, The "Wp" displayed at "Data-Queue" is maximum power

【Wh】

The "Wh" displayed at "Data-Queue" is the maximum power after working for an hour.

【Charge capacity (Ah)】

The displayed "Ah" is the total capacity drain. To measure accurately, please do not interrupt the power in the process.

The value of Ah will be accumulated when in the forward current(A) and it will decrease on the original value when in reverse current(A).

For example: The battery charge into 1000 mah, then discharge 600 mah ,the value will be reduced from 1Ah to 0.4 Ah.

【Timer Function】

When current $\geq$ 1A, timing function will start to work.

When current $\leq$ 1A, timing function will be paused, when current $\geq$ 1A, it will continue to work. This function can test the runtime of motor when flying.

1.Connection (please refer to the chart):

The unit can be conveniently connected because you don't need to differentiate the A/B port. (That is, you can connect power supply to A / B port or electro-device to B/A port)



When connect loading equipment to port B, the displayed "A" is the current.

When connect loading equipment to port A, the displayed "A" is the current.

2. Caution:

Please connect the external power supply (4.6-60V) to port C in the following situations:

- When the charger is discharging battery.
- When the measured voltage is below 4.6 V.

3. Lemonhobby 180A Main functions:

- Measure the circuit safety and 8 main parameters of its performance.
- Prevent the battery, motor, motor speed controller, wires and connectors from damages caused by high current.
- Check the load voltage, set up the safety voltage.
- Check the capacity and the performance
- Keep each cell's parameter balanced to make the charger work normal.
- Detect the real working current of the receive devices to decide whether a UBEC is needed.

4. Specifications:

- Operating voltage range: 4.6-60V.
The unit can start to measure from 0V if there is a external power supply.
- Working temperature: -10°C - +70°C
- Consumption: 8mA
- Current range: 0-180A
- Voltage range: 0-60V
- Power range: 0-10800W
- Capacity range: 0-99Ah
- Power drain range: 0-9999.9Wh
- 16x2 backlit LCD display
- Size: 85x42x25 mm
- Weight: 82g

Display resolution: 0.01A
Display resolution: 0.01
Display resolution: 0.1W
Display resolution: 0.001Ah
Display resolution: 0.1Wh