DT20 Wi-Fi series product manual

Important statement:
This Meter does not immediately display the capacity of the connected battery when it is powered on, but rather after receiving the goods.It is necessary to strictly follow the instructions to fully charge the battery first, then connect it to this meter and press and hold the plus or minus buttons at the same time。After clearing the capacity of this meter to zero, the accumulated measured capacity is discharged through this meter until the battery runs out of chargeQuantity is the storage capacity of the tested battery !!! If you are a novice user, please refer to the user manual for detailed instructions or contact Seeking help and explanation from the manufacturer's technical personnel for learning!

Voltage measurement range: 0~420V

☐30A☐100A☐200A☐300A☐400A☐500A☐600A

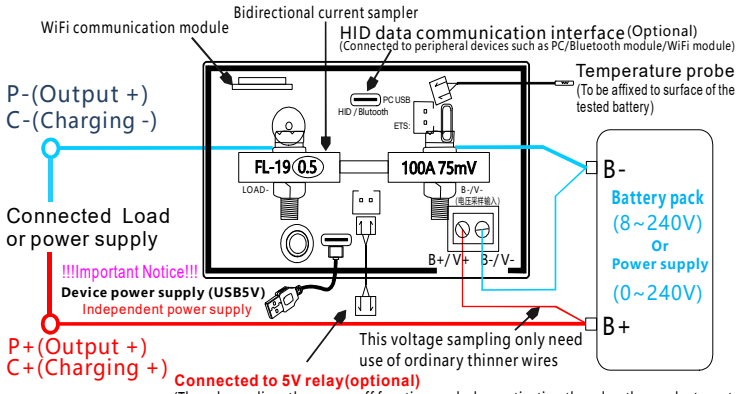
This device is used to measure and display the voltage, current, power, simulated load resistance value, discharge capacity, electricity level, battery temperature, over-voltage prompt, low-voltage prompt, over-voltage prompt, as well as the percentage of electricity level corresponding to the battery voltage ratio of the battery pack/power supply

Application

*This Device is suitable for measuring and displaying parameters such as voltage, current, power, and electrical capacity of DC power sources, batteries, or battery packs。

*Suitable for all types of lithium batteries, lithium iron phosphate, lead-acid, nickel hydrogen, and DC power supplies with working voltages ranging from 0 to 420V

True four wire wiring instructions (0~420V) (HID independentpower supply/Type-C 5V power supply)

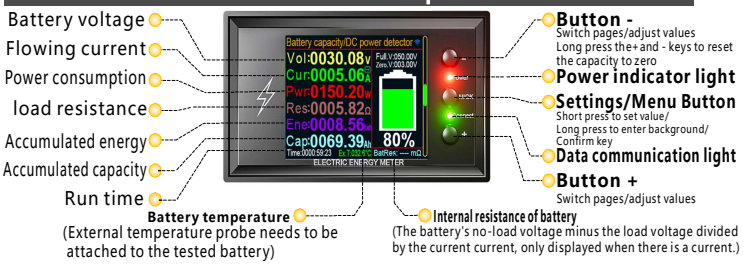


Attention:
Please strictly follow the wiring diagram. The sampler must be connected in series to the negative circuit of the battery, and it is strictly prohibited to connect to the positive circuit!

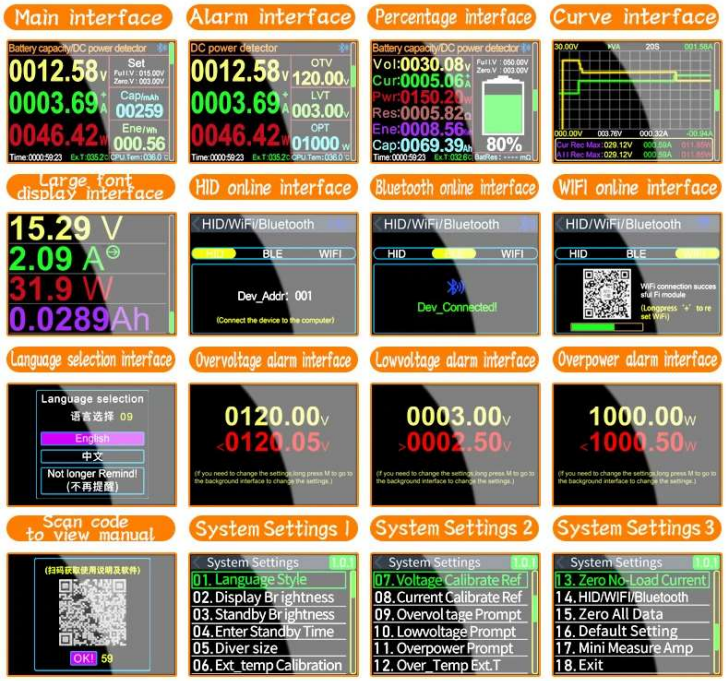
1.The sampler used in this meter must be connected in series to the negative electrode circuit of the battery pack. The sampler should be connected to the negative electrode B - of the battery, and the P- end should be connected to the negative electrode P -/ C - for charging and discharging.
2.Take one red and one black wire to connect the positive and negative terminals of the battery to the voltage sampling input interface shown in the diagram, for voltage sampling.
3.Connect the randomly delivered Type-C data cable to a 5V USB power supply to power the product and it will display normally.
4.Wiring principle: Ensure that all current flowing through the battery passes through the bidirectional current sampler shown in the diagram!

Warning:
The current line passing through the load should be as thick as possibleand meet therequired carrying current of the load! The thicker the wire diameter,the better!

Main interface and button operation methods



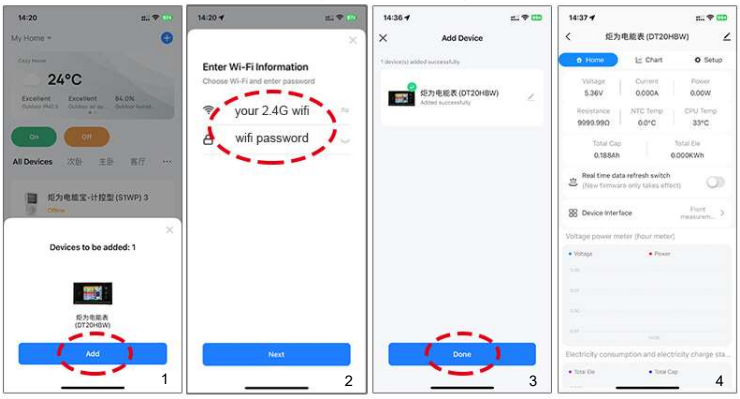
English display interface



How to add device in APP (tuya or smart life app)

Works with Tuya Works with Smart Life

1. Download and install APP on mobile, and register with your phone number
2. Powered by a DC USB 5V power supply, the product's connection light flashes and enters pairing mode.
3. Start Tuya Smart app on mobile, goes as following step by step;



Home	Overview of Main Interface Data
Chart	View voltage/power/energy/CPU temperature curve
Setup	Adjust protection parameters

Product parameters

1.Voltage range:DC 0~420V (DC5V independent power supply)
Capacity range: 0-99999AH
Current range:0~30A/0.1~100A/0.2~200A/0.3~300A/0.4~400A/ 0.5~500A/ 0.6~600A(optional)
2. Support the modification of circuits that require additional relays to be fully charged and fully discharged, which can protect the battery;
3. Support low-voltage, over-voltage, over-Power prompt or power outage (when adding 5V relay circuit); Support bidirectional current testing access, After the line, there is no distinction between the direction of current!
4. Support shunt selection: 100A/200A/300A/400A/500A/600A