

A. Features

1. Four electrical parameter measurement (voltage, current, active power, energy)
2. Voltage alarm (user-settable over- and under-voltage alarm, backlight and display flashing).
3. Resettable Accumulated Energy (Watt-hours) Measurement
4. Data is retained even when power disconnected.
5. Large-screen LCD (Simultaneous display of voltage, current, active power, energy)
6. Switchable Backlight function.

B. General Appearance and Button function

I. Display Interface

Large-screen LCD, displays voltage, current, power, energy parameters simultaneously.

II. Display Format (Auto Ranging)

1. Power: Measurement Range: 0~2kW

Below 1KW, display format is: 0.0~999.9W;
1KW and above, display format is: 1000~2000W.

2. Energy (Watt hours): Test range: 0~9999kWh

Below 10KWh, display format is: 0~9999Wh; 10kWh and above, display format is: 10~9999kWh.

3. Voltage: Test range: 6.5~100V

Display format: 6.50~99.99V

4. Current: test range: 0~20A

Display format: 0.00~20.00

III. Control Pushbutton – all functions are activated by a single pushbutton.

1. Backlight control

Short press (jab) the button to turn the backlight on or off. (Backlight has memory function, so it will remember its last setting when power is off).

2. Reset Accumulated Energy Reading (Watt-hours or kilowatt-hours)

1. Press and hold button for about 5 seconds. It will first display “Set” then “CLr”. Release when it says “CLr”
2. The energy reading will start flashing. A short press will reset the reading to zero.
3. If the button is not pressed after 5 seconds, it will automatically exit the resetting mode.

3. Set voltage alarm threshold

Note: The available range for the voltage alarms setting is 6.5~99.9V

Step 1: Press and hold button until “Set” is displayed, then release

Step 2: In this state, the digits that normally display voltage will show the high voltage alarm value, the digits that normally display current show low voltage alarm value. The last digit will be flashing; a short press adds +1 to that digit; keep making short presses until the desired value is reached.

Then wait three seconds; the flashing will move to the second last digit. Repeat the process until all six digits are set.

Step 3: After completing the voltage settings, press and hold the button until the screen display shows “PASS”. That indicates you have entered valid settings and the device will exit the setting state automatically.

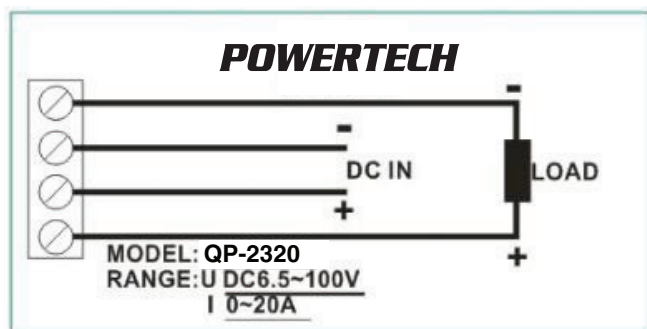
C. Precautions

1. This module is not waterproof; it is only suitable for indoor or sheltered use in dry areas, it is not intended for unprotected outdoor use.
2. The applied load must not exceed the rated voltage and current.
3. Pay particular attention to voltage polarity.

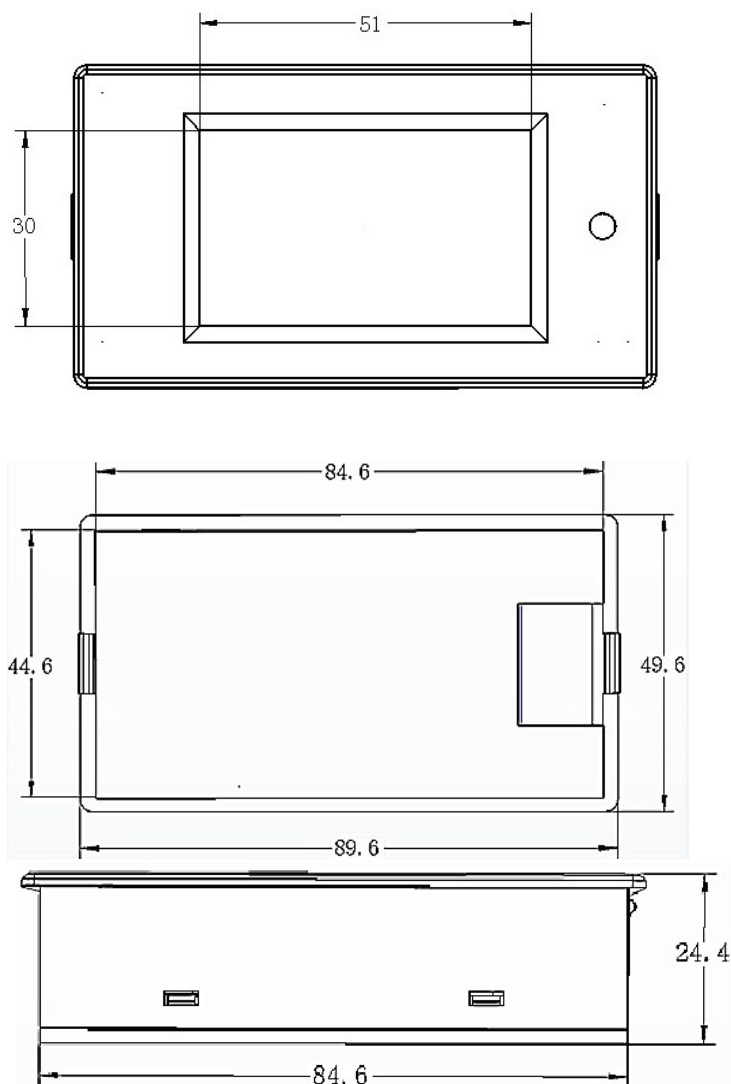
D. Specification Parameters

1. Working voltage: **6.5~100VDC**
2. Test voltage: **6.5~100VDC**
3. Rated power: **20A/2000W**

E. Wiring diagram



F. Dimension Diagram (mm)



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TechBrands by Electus Distribution
Pty. Ltd.
320 Victoria Rd, Rydalmere
NSW 2116 Australia
Ph: 1300 738 555
Int'l: +61 2 8832 3200
Fax: 1300 738 500
www.techbrands.com
Made in China