

# 32542-ME

## Multifunction DC Panel Meter 10KW

**Back-lit, Snap-in LCD panel meter that measures DC Volts, Amps, Watts, Watt hours.**

Ideal for submetering and monitoring. Terminal Strip for Connections & Back Cover.

Adjustable Over/Under voltage Alarm (Backlight Flashes.)

Ideal for submetering and monitoring.

Terminal Strip for Connections & Back Cover.

Input Voltage: 6.5-100VDC

Resolution: .01V

Input Range Amps: 0-100A

Resolution: Amps: .01

Watts: 0-10KWmax

Resolution: <1KW=0.1W, <10KW=1W

Energy Used: 0-9999KWH

Resolution: <10KWH=0-9999WH, >10KW=9999KW

Accuracy: +-1% +-1LSD

Shunt: 100A Supplied

Cutout: 84.6mm X 44.6mm

W: 3-9/16"

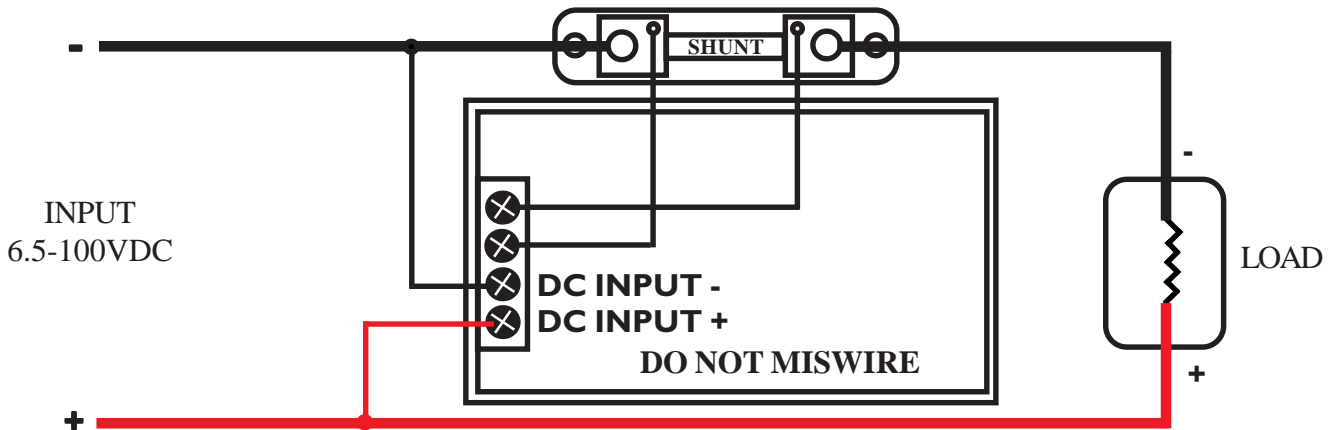
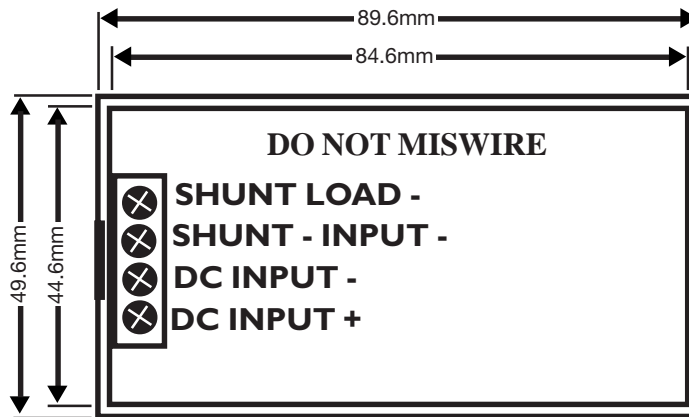
H: 2"

D: 1"

WT: .2



← BUTTON



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# 32542-ME

## Multifunction DC Panel Meter

### 10KW

#### PANEL OPERATION

**NOTE:** Cumulative Watt-Hrs (ENERGY) & Backlight on/off status are retained with power off

**Backlight:** Short press of Button to cycle backlight ON/OFF

To Set OVER/UNDER VOLTAGE ALARM value

- 1: Press & Hold the Button Until the POWER displays "**SET**" then release
- 2: The VOLTAGE Display will show the present Overvoltage value  
The CURRENT Display will show the present Undervoltage value  
and the last digit on Left (VOLTAGE Display) will flash
- 3: Momentarily press the Button to increase the value by 1 until your value is reached
- 4: Wait 3 seconds and the next Digit to the Right will flash
- 5: Repete step 3 & 4 until all 3 High Voltage & 3 Low Voltage digits are set
- 6: Press and hold the Button until the screen displays "**PASS**" to store the setting  
and exit to normal operation

To Reset ENERGY (Watt/Hrs) cumulative value

- 1: Press & Hold the Button for until the POWER display flashes "**CLr**" then release
- 2: Momentarily press the Button to clear value and exit to normal operation  
If there is no action within 5 seconds, then value will not reset and operation will return to normal

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## DC digital multi-function meter

Product type: PZEM-051

### A.Function

1. Electrical parameter measurement function (voltage, current, active power, energy),
2. Voltage alarm function (over voltage alarm threshold, backlight and voltage flashing to alarm).
3. The reset function of energy key.
4. Store data when power off.
5. Large-screen LCD (display voltage, current, active power, energy at the same time)
6. Backlight function.

### B.Appearance and Key function

#### I. Display Interface

Display interface is large-screen LCD, it can display voltage, current, power, energy parameters at the same time.

#### II. Display format

##### 1.Power: test range: 0~10kW

within 1KW, the display format is 0.0~999.9W;  
1KW and above, the display format is 1000~9999W.

##### 2.Energy: test range: 0~9999kWh

Within 10KWh, the display format is 0~9999Wh;  
10kWh and above, the display format is 10~9999kWh.

##### 3.Voltage: test range: 6.5~100V

Display format: 6.50~99.99V

##### 4.Current: test range: 0~100A

Display format: 0.00~99.99

### III. Key

#### 1.Backlight control

Short press the key to turn on or off the backlight, the backlight has memory function, it can store the on or off state when power off.

#### 2.Reset energy

Step1: Long press the key until the power display area display "CLr", then release the key.

Step2: At this moment, the energy is flashing to prompt this is the energy reset state, if short press the key again, then the energy value is cleared and exit the reset flashing state.

Step 3: If there is no operation within 5 seconds, it means the energy value is not cleared and will exit the reset state.

#### 3.Set voltage alarm threshold

Step1: Long press the key until the power display area display "SET", then release the key.

Step2: After enter this state, the voltage area display the current high voltage alarm value, the current area display the current low voltage alarm value and the last digit begin to flash, then you can short press to plus 1, when there is no operation over 3 seconds, it will switch the digit position automatically, from the high voltage alarm value to the low voltage alarm value, there are total six digits, the range of the voltage alarm threshold is **6.5~99.9V**;

Step3: After finish the setting, long press the key until the screen display "PASS",that means you set successfully and will exit the setting state automatically.

#### 4.Choose measuring range

Step1: Long press the key until the power area display "Curr", then release the key

Step2: At this moment, the current area display "100A", short press the key to switch between "100A" and "50A", to prompt the range of the external shunt is 100A/75mV or 50A/75mV, please note that this meter can only use these two specification shunt.

Step3: Long press the key to exit the setting state or after no operation within 3 seconds it will store automatically and exit the setting state.

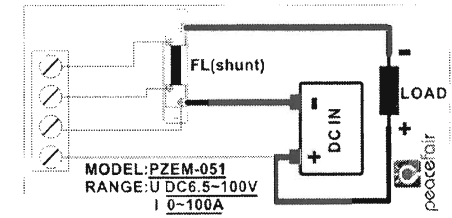
### C. Precautions

1. This module is suitable for indoor, please do not use outdoor.
2. Applied load should not exceed the rated voltage, current.
3. Wiring order can't be wrong.

### D. Specification parameters

1. Working voltage: **6.5~100VDC**
2. Test voltage: **6.5~100VDC**
3. Rated power: **100A/10000W**
4. Measurement accuracy: 1.0 grade

### E. Wiring diagram



### F. Dimension diagram (mm)

