

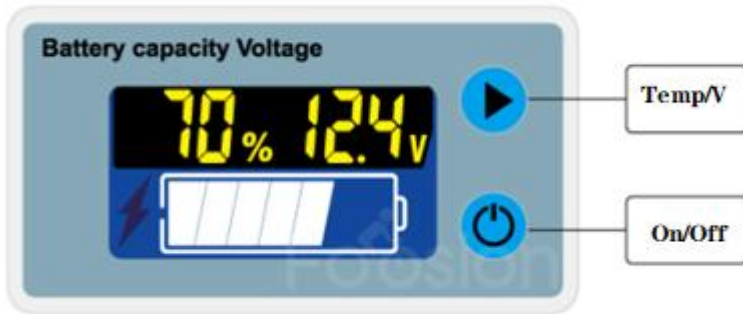
HS-12~100V Battery Capacity Voltage Monitor

User Manual

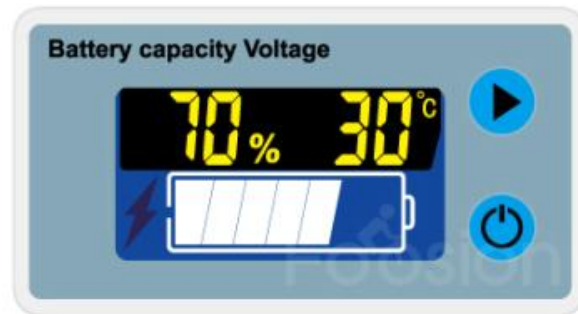
Overview	This monitor has features including colorful screen, low power consumption, on/off switch, displaying capacity, voltage and temperature.
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Parameters	Minimum	Typical	Maximum	Unit	Value
Product Dimension				mm	61.5x33.5x13.5
Display size				mm	36x19.5
Weight	20	21	22	g	
Operating Voltage	10		100	V	
Operating Current		5	6	mA	
Operating Temperature	-10	25	55	°C	







Voltage



Temperature

How to Use:

1. Press and hold  for 5 seconds to enter setting menu (Pic 1)
2. There are FIVE submenus, 1--, 2--, 3--, 4--, 5--.
3. Press  button to shift between 5 submenus.
4. 5 submenus:
 - 1-- Change Battery type, Lithium, LiFePO4, Lead-Acid.
 - 2-- Timer Setting.
 - 3-- Customize Max./Min. Voltage.
 - 4-- Beep Setting, Voltage Alarm.
 - 5-- Calibrating Voltage.
5. Press  button to enter submenus. Press and Hold  button to exit.



Pic 1.

Submenu Setting:

1-- Selecting Battery Type:





L: represents to NCM battery type; Number following represents to cells

F: represents to LiFePO4 battery type; Number following represents to cells

P: represents to Lead-Acid Battery; Number following represents to number of batteries
(12v each)

Setup Steps:

Enter 1-- submenu, see Pic 2, press  button to shift between L/F/P.

Press  button to select correct battery type, then press  button to select number of cells/batteries, press and hold  button to save and press and hold  button to exit

Example:

L3: 3 NCM cells i.e., $4.2V \times 3 = 12.6V$

P12v: 12V/Battery

L7: 7 NCM cells i.e., $4.2V \times 7 = 29.6V$

P48v: 48V/Battery

F4: 4 LiFePO4 cells i.e., $3.2V \times 4 = 12.8V$

F8: 8 LiFePO4 cells i.e., $3.2V \times 8 = 25.6V$



Pic 2.






PS: if battery type has not been correctly selected, battery voltage will remain 100%.

2-- Timer Setting:

In this submenu, user can select to enable/disable screen timer. Also, the timer can be chosen once enable screen timer. (Pic 3)

ON/OFF 10s/30s/60s/120s

Setup Steps:

Press  button to enter 2-- submenu, press  button to change parameters. Press  button to shift parameters selection. Then press and Hold  button to save. Press and hold  button to exit.

PS: When timer is enabled, letter D will show up on bottom right of the display.



Pic 3





3-- Capacity percentage setting:

In this submenu, user can select set Mini/Maxi Voltage align with battery capacity.

(Pic 4)

1. Reading on the left, stands for voltage when 0% battery capacity
2. Reading on the right, stands for voltage when 100% battery capacity

Setup Steps:

Enter 3-- submenu, then press  button to select voltage and press  button to shift. Press and hold  button to save. Then press and hold  button to exit.



Pic 4




PS. Mini/Maxi Voltage cannot be selected outside battery operating voltage.

4-- Beep Alarm Setting:

In this submenu, user can customize voltage when the beep alarm can be triggered. Enter submenu (Pic 5)

1. Choose beep alarm on/off on the left.
2. Select voltage to trigger beep alarm on the right.

Setup Steps:

Enter 4-- submenu, press and hold  button to change beep alarm on/off. Press  button to shift to voltage setting. Press and hold  button to save.




Pic 5

5-- Voltage Calibration Setting:

Before enter 5-- submenu, user must provide external 20V voltage supply.

Setup Steps:

Press and hold  button to enter 5-- submenu. If external voltage supply is outside 19-21V, voltage calibration will not be performed successfully.



Pic 6



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