SMART ALARM

Digital Battery Checker & Alarm

Thank you for purchasing this SMART ALARM. We are sure you will be pleased with its performance and features. In order to ensure that you obtain the maximum benefit from its operation, please read these instructions carefully.

	Li-Po	LiFe	Li-Ion	NiCd	NiMH
Input Cells	1~8 Cells	1~8 Cells	1~8 Cells	1~14 Cells	1~14 Cells
Total Voltage	✓	✓	✓	✓	✓
Individual Battery Cell Voltage	✓	✓	✓	✗	✗
Lowest Cell Voltage	✓	✓	✓	✗	✗
Highest Cell Voltage	✓	✓	✓	✗	✗
Voltage Difference Between Highest and Lowest Cell Voltages	✓	✓	✓	✗	✗
Total / Cell battery capacity (0~99%)	✓	✓	✓	✗	✗

FS-BC06

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Specifications

Lithium Battery Cell Count:	1~8 Cells
Lithium Cell Low Voltage Alarm Range	2.0~4.0V
NiCd, NiMH, Pb Pack Voltage Range	3.3~24.0V
Pack Low Voltage Alarm Range (NiCd, NiMH, Pb)	2.0~20.0V
Voltage Display Resolution:	0.001V
Current Loading of Test::	24mA
Weight:	23g
Dimensions (L x W x D):	67 x 39 x 13mm

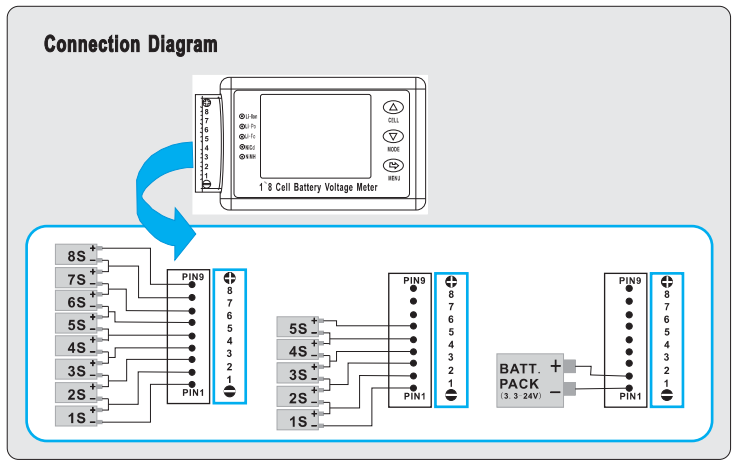
Special features

- Small and lightweight with multiple easy to use functions
- Can be used as digital battery checker or on-board battery monitor with alarm
- Backlit 128 x 64 pixel LCD screen
- Includes optional on-board remote sounder with twin 90dB buzzers and LED
- Programmable Low Voltage Alarm
- Programmable Lithium Cell voltage difference alarm

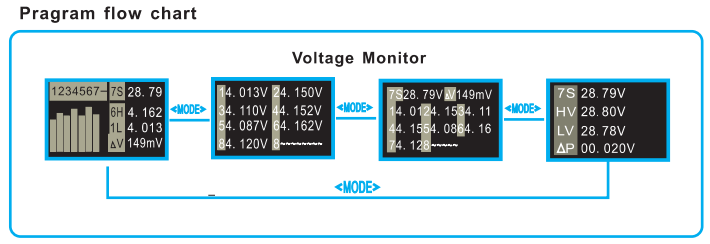
External controls and connections

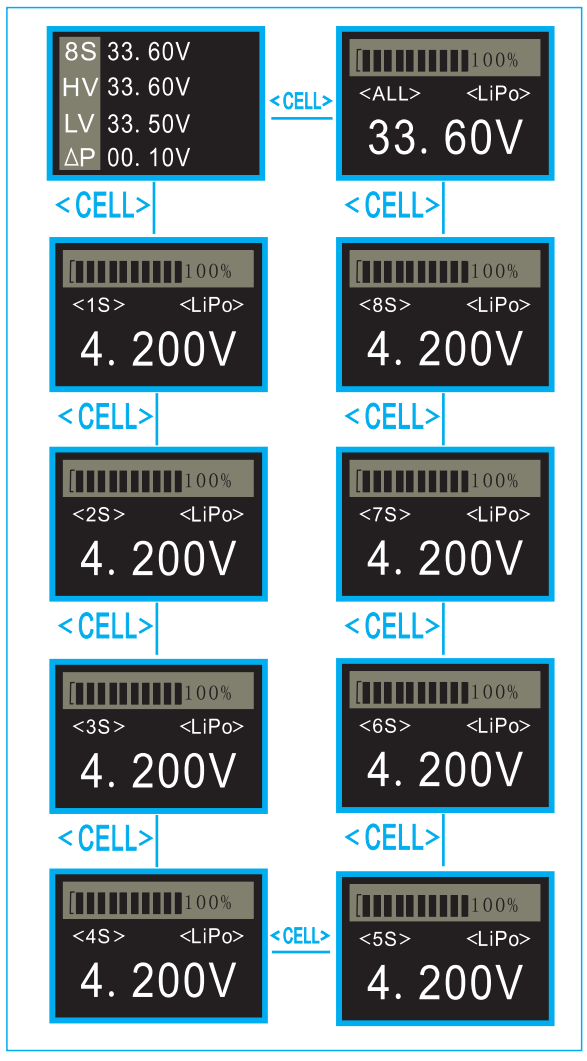
1. Input plug 2. LCD screen 3. Function button 4. Beep 5. Alarm port

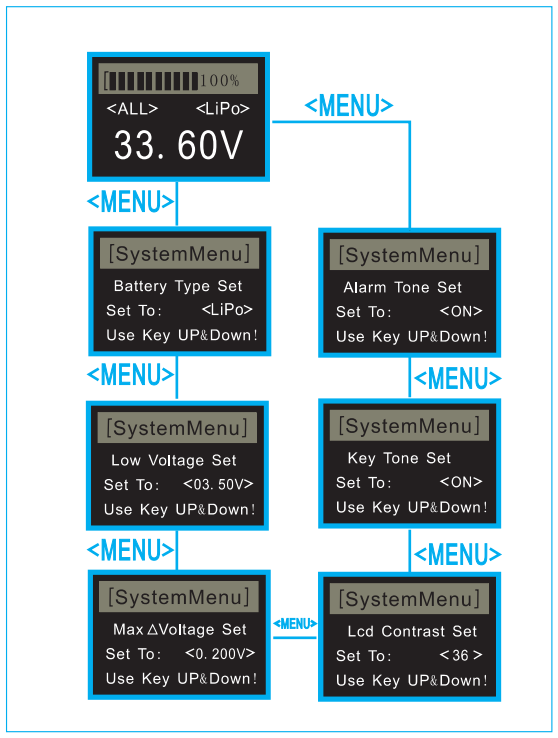
Connection Diagram



Pragram flow chart



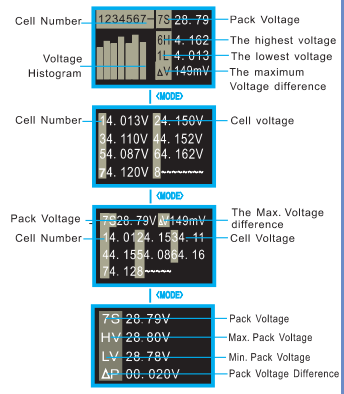




Symbol Meanings:

Disptay Symbols	The meaning of the Symbols	Note
nN	total voltage of the pack	n:0-8, the cell count
nH	the highest individual cell voltage	n:0-8, the highest cell number
nL	the lowest individual cell voltage	n:0-8, the lowest cell number
ΔV	the maximum voltage difference between the cells	ΔV = nH – nL
HV	the voltage maximum value	
LV	the voltage minimum value	
ΔP	the pack maximum voltage difference	ΔP = HV – LV

- **Voltage Monitor**
  There are 4 interface choices, with can be shifted by〈▲〉or〈▼〉buttons.



As the left pictures: the "7" in "7S" means cell counls; "6H" means the 6 cell voltage is the highest; "1L" means the 1 cell voltage is the lowest.
If the monitor voltage trigger alarm, the corresponding volgate and alarm display (LOW, OVER or DIFF) shows alternatively.
The cell number and (L, O, D) shows alternatively.

"LOW" or "L" means: Low voltage alarm
"OVER" or "O" means: Over voltage alarm
"DIFF" or "D" means: Voltage difference alarm. They will be displayed at the same time at the highest and the lowest cell voltage interface.

Monitor the pack voltage
Display respectively: Current pack voltage. Max. Pack voltage, Min. Pack voltage, Pack voltage difference.
(ΔP = HV - LV)

- **The Smart Alarm has two default voltage display screens.**
  Press the MENU key for 2 seconds to save your preferred display.