

Overview

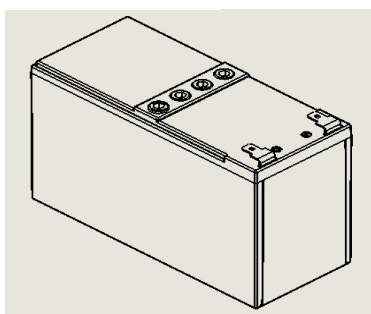
VISION technology provides a safe LiFePO₄ battery solution for UPS and energy storage systems, with good compatibility and safe long cycle life.

The battery contains a BMS module, which monitors voltage, temperature, and current , anti-overcharge, over-discharge, overcurrent, short circuit function

Features

- High-precision battery voltage and temperature acquisition: $\pm 3\text{mv}$, $\pm 1\text{ }^{\circ}\text{C}$;
- High power factor, maximum continuous output current of 45A per unit;
- Maximum support for 6 batteries in series, any cells in parallel, flexible layout, convenient maintenance;
- No external BMS required, seamless replacement of lead-acid batteries

Preview



Module 12.8V9Ah

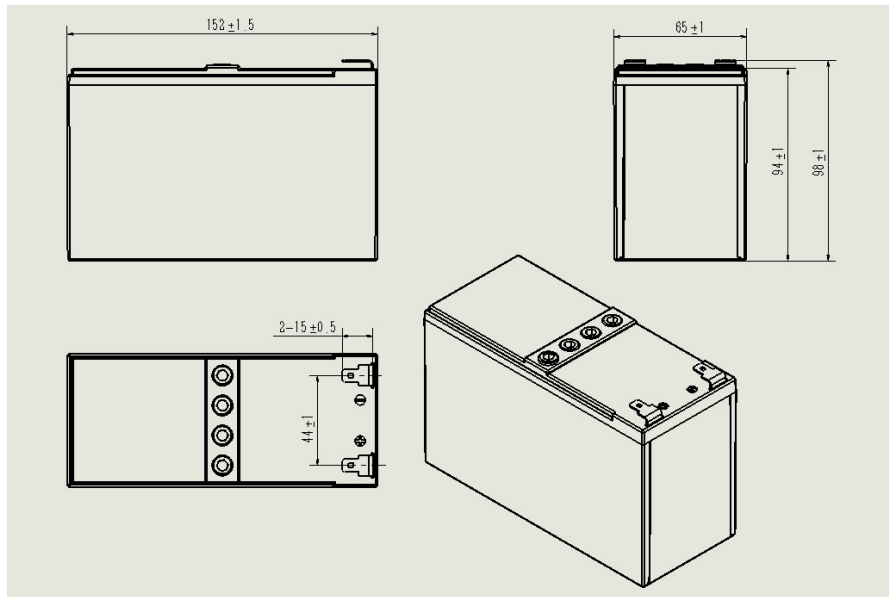
Performance Data

Time(min)	12	18	27	54	108
Constant Power(kw)	0.57	0.38	0.25	0.12	0.06
Constant Current(A)	45	30	20	10	5

Specification

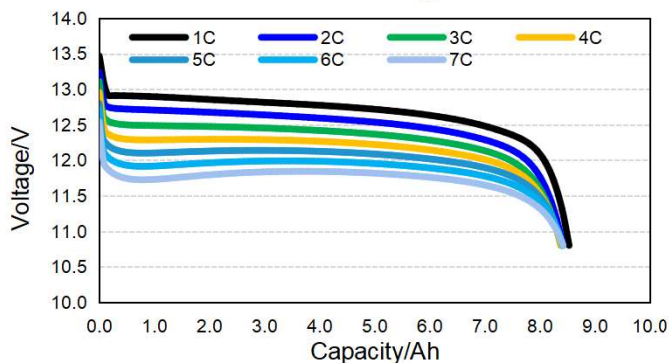
Voltage Range(V)	10.5~13.8
Cell	12.8V9Ah
Series & Parallels	4S1P
Rated Voltage(V)	12.8
Rated Capacity(Ah)	9
Rated Energy(Wh)	115
Recommended Charging Current(A)	9
Discharge cut-off(V)	10.5
Charge Voltage(V)	13.8
Cycle Life(@25 $^{\circ}\text{C}$, 0.5C/2C, 100%DOD)	> 3000
Short-circuit Current(< 10ms)	Approx.256
System Dimension(W* D* H)	(65*152*98) mm
Total Weight(Kg)	Approx.1.25
Internal Resistance Fully Charged@ 25 $^{\circ}\text{C}$	$\leq 10\text{ m}\Omega$
Thermal Management	Air cooled
Charge Temperature	0 ~ 45 $^{\circ}\text{C}$
Discharge Temperature	-20 ~ 55 $^{\circ}\text{C}$
Operating Humidity	< 95%R.H.
Design life	10 years
Application scenario	Completely replace 12V lead-acid batteries

Module size

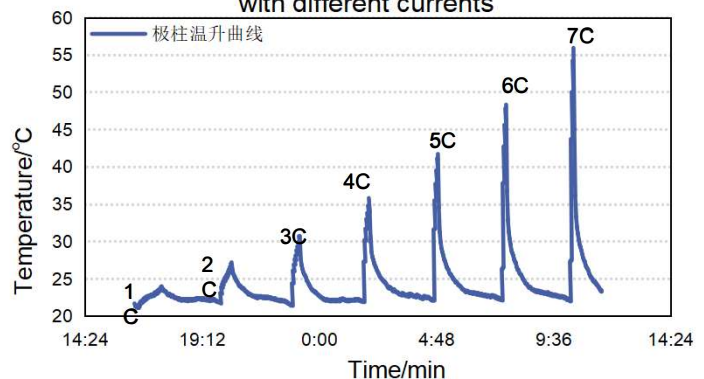


Characteristics Curve

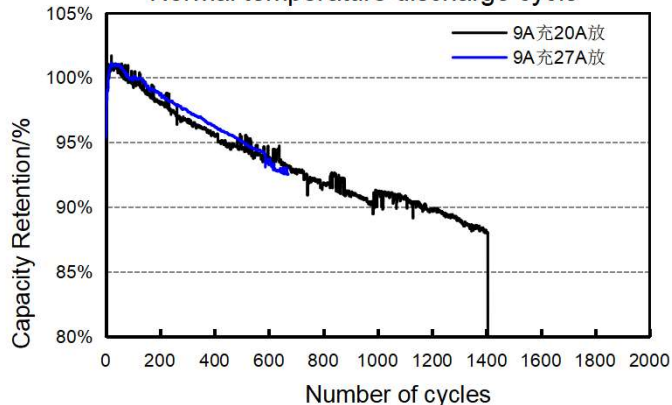
Different current discharge curves



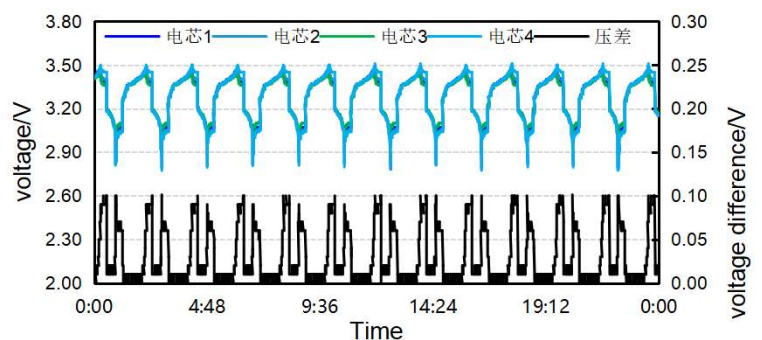
Comparison of discharge temperature curves with different currents



Normal temperature discharge cycle



9A/20A Pressure difference curve after 1100 charges and discharges



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