

Overview

Vision Technology provides safe LiFePO4 battery solutions for UPS and Energy storage system. This battery system serves for UPS and Energy storage system with perfect compatibility and safe long cycle life.

Features

- Internal cell balancing ,Passive equalization , the maximum equalization current up to 200mA;
- High-precision cell voltage and temperature acquisition:±3mv,±1C;
- Automatic circulation control and automatic, easy to realize parallel machine use;
- Fire extinguision device in the module, 7*24H all-weather fire;
- IBB integrated bus design in the module realizes the cell string without screws and cables;
- Full state management, 100% real-time cell management and functional device control;
- High-precision leakage detection to prevent insulation failure and ensure system reliability.

Module Preview



Module 51.2V50Ah

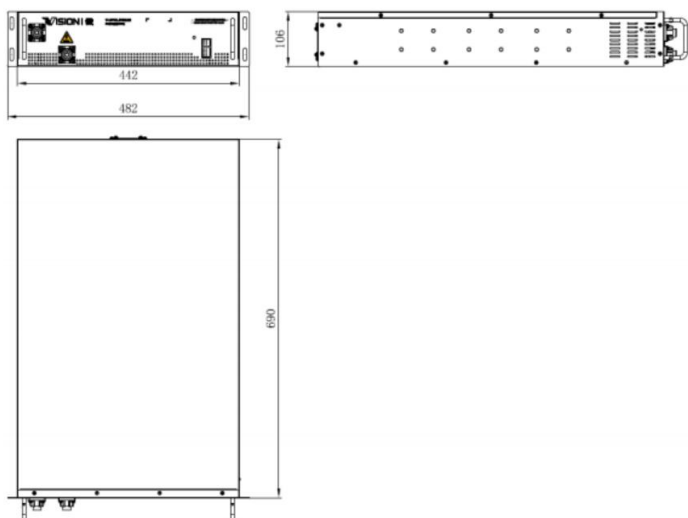
Performance Data

Time(min)	10	15	30	45	60
Constant Power(kw)	103	90	46	31	23
Constant Current(A)	245	200	100	66	50

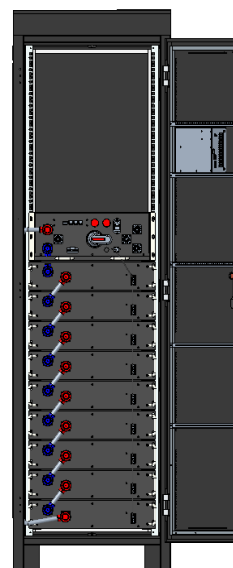
Rack Specification

Voltage Range(V)	403.2~496.8
Cell	3.2V50Ah
Series & Parallels	144S1P
Rated Voltage(V)	460.8
Rated Capacity(Ah)	50
Rated Energy(KWh)	23.04
Recommended Charging Current(A)	10~25
Discharge cut-off Voltage(V)	403.2
Charge Voltage(V)	489.6 ~ 496.8
Cycle Life(@25°C ,0.5C/2C,100%DOD)	> 2500
Short-circuit Current(< 10ms)	Approx.5000
System Dimension(W* D* H)	(600*1000*2000) mm
Total Weight(Kg)	Approx. 510
Internal Resistance Fully Charged@ 25°C	≤90 mΩ
Thermal Management	Air Cooling
Charge Temperature	0 ~ 50 °C
Discharge Temperature	-20 ~ 65°C
Operating Humidity	< 95%R.H.
Communication	CAN/RS485/TCP
System Parallels	≤15(GBMS)
Dry Contact	3 outputs, 1 input
Design life	15 years
Certification	IEC62619
	UL9540A
	UL1973
	UN38.3

Module size



Rack

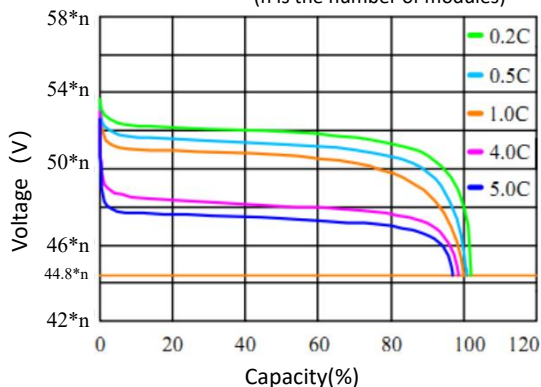


Rack TP90(S)

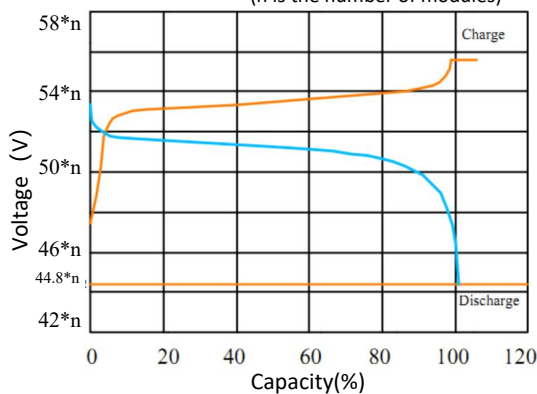
TP90(S)-with LCD TP90-without LCD

Characteristics Curve

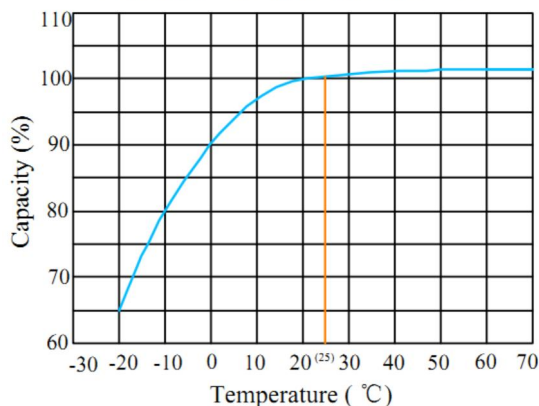
Discharge Performance at 25 °C
(n is the number of modules)



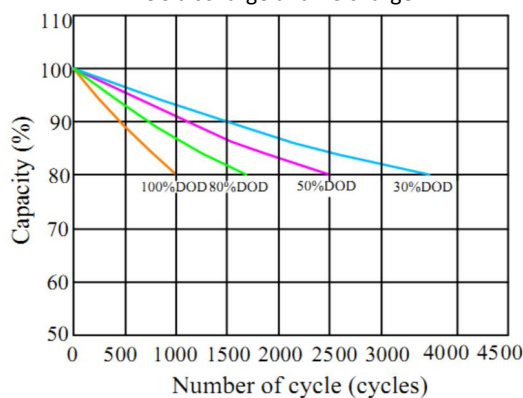
Charge and Discharge at 25 °C, 0.5C
(n is the number of modules)



Temperature effects on capacity at 0.5C



Cycle life with DOD at 25°C
5C discharge and 1C charge



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