

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 51.2V100Ah

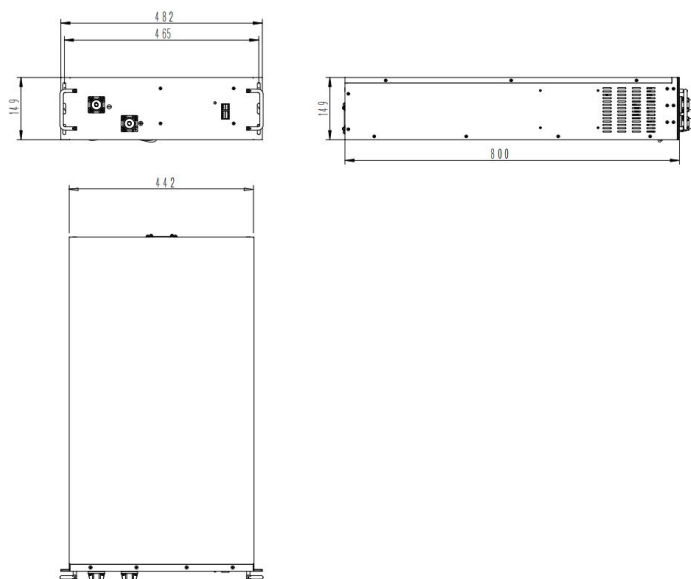
Performance Data

Time(min)	10	15	30	45	60
Constant Power(kw)	225	180	91	61	46
Constant Current(A)	510	400	200	133	100

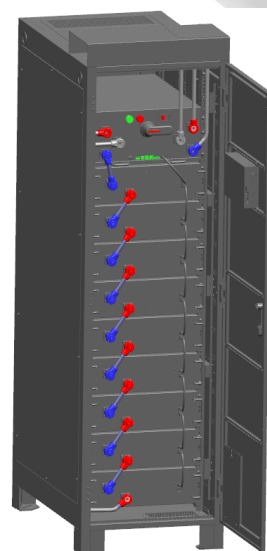
Rack Specification

Voltage Range(V)	403.2~496.8
Cell	3.2V50Ah
Series & Parallels	144S2P
Rated Voltage(V)	460.8
Rated Capacity(Ah)	100
Rated Energy(KWh)	46.08
Recommended Charging Current(A)	20~50
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.9000
System Dimension(W* D* H)	(600*1000*2000) mm
Total Weight(Kg)	Approx. 820
Internal Resistance Fully Charged@ 25°C	≤54 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, IEC60068, UL9540A, UL1973, CE-LVD(EN 62477+62040), CE-EMC(IEC61000-6-2)

Module size



Rack

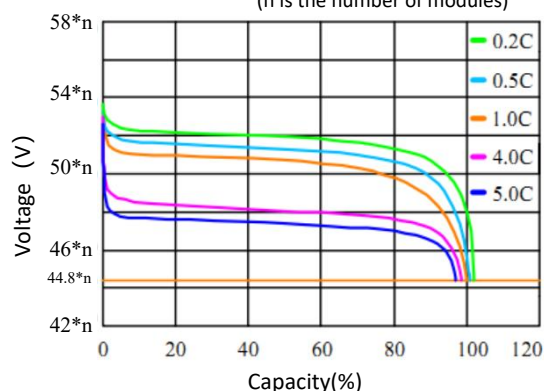


Rack TP180(S)

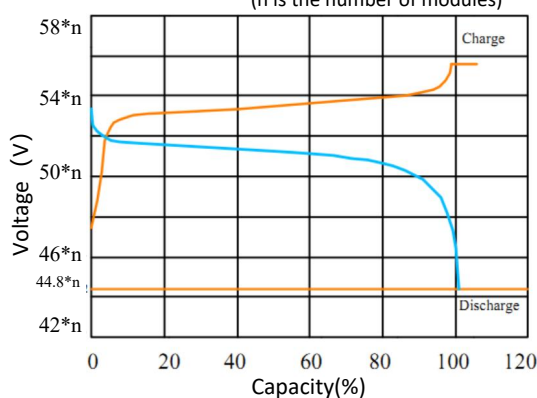
TP180S-with LCD TP180-without LCD

Characteristics Curve

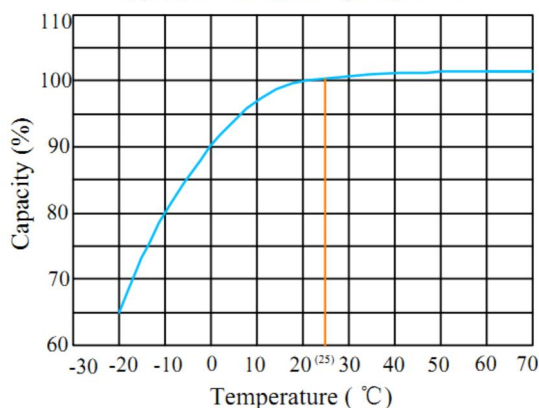
Discharge Performance at 25 °C
(n is the number of modules)



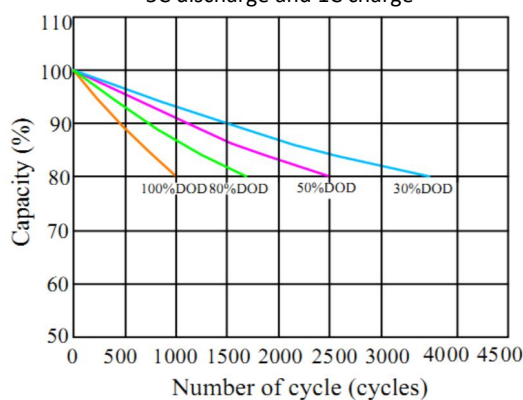
Charge and Discharge at 25 °C, 0.5C
(n is the number of modules)



Temperature effects on capacity at 0.5C



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



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