

## Overview

Vision Technology provides safe LiFePO<sub>4</sub> 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 extinguishing device in the module, 7\*24H all-weather fire;
- IBB integrated bus design with laser welding 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

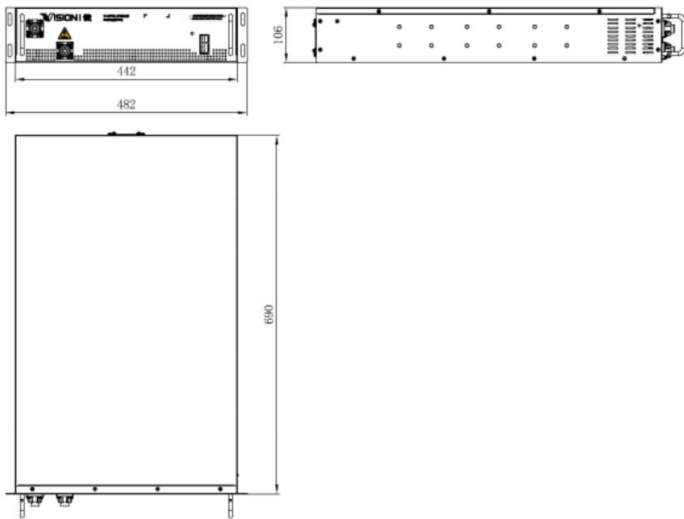
## Performance Data

Time(min)	10	15	30	45	60
Constant Power(kw)	91	80	40	27	20
Constant Current(A)	245	200	100	66	50

## Rack Specification

Voltage Range(V)	358.4~441.6
Cell	3.2V50Ah
Series & Parallels	128S1P
Rated Voltage(V)	409.6
Rated Capacity(Ah)	50
Rated Energy(KWh)	20.48
Recommended Charging Current(A)	10~25
Discharge cut-off Voltage(V)	358.4
Charge Voltage(V)	435.2 ~ 441.6
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. 480
Internal Resistance Fully Charged@ 25°C	≤85 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

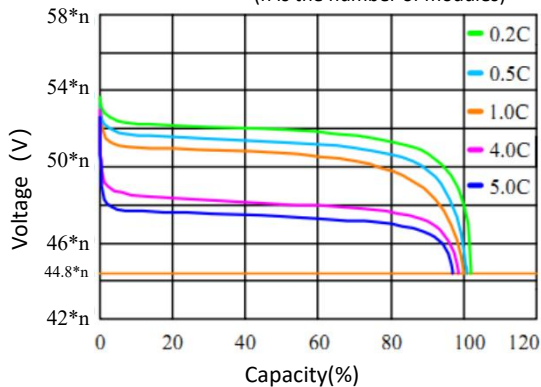


Rack TP80(S)

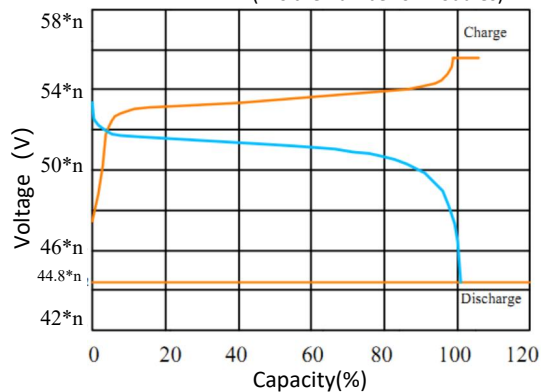
TP80(S)-with LCD TP80-without LCD

## Characteristics Curve

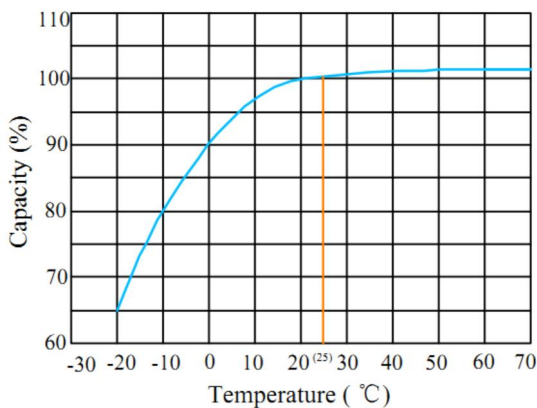
Discharge Performance at 25 °C  
(n is the number of modules)



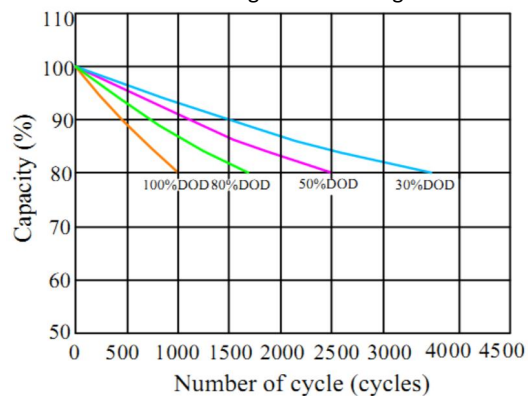
Charge and Discharge at 25 °C, 0.5C  
(n is the number of modules)



Temperature effects on capacity at 0.5C



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



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