

## 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

- Can/RS485 Communication output for monitoring
- Achieve up 32 BMU in cascade communication
- Internal cell balancing ,Passive equalization , the maximum equalization current up to 300mA
- High-precision cell voltage and temperature acquisition:  $\pm 3\text{mv}$ ,  $\pm 1^\circ\text{C}$ ;
- Fan control circuit and interface, realize heat dissipation inside the module

## Module Preview



Module 51.2V50Ah

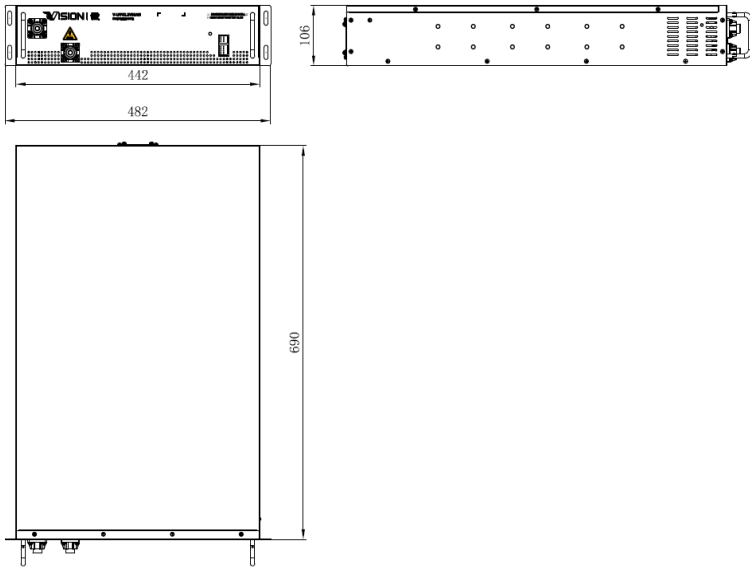
## Performance Data

Time(min)	10	15	30	45	60
Constant Power(kw)	102.6	83.7	44.28	29.52	22.6
Constant Current(A)	245	200	100	66.7	50

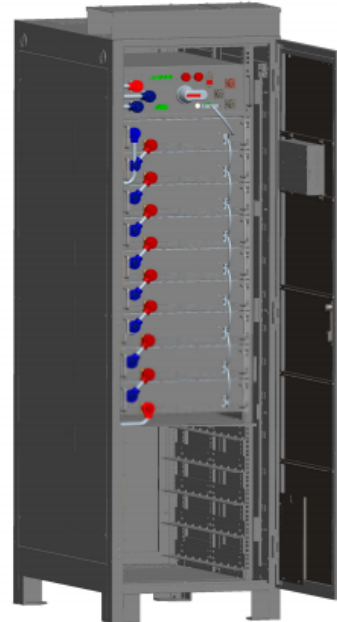
## Rack Specification

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	
Maximum Charge Current(A)	50	
Discharge Cut-off Voltage(V)	403.2	
Charge Voltage(V)	489.6~ 496.8	
Cycle Life(@25°C ,1C/1C,100%DOD)	>2500	
Short-circuit Current( < 10ms)	Approx.5000A	
System Dimension(W* D* H)	(600*1000*2000 ) mm	
Total Weight(Kg)	Approx.510	
Internal Resistance Fully Charged@ 25	90mOhms	
Thermal Management	Air Cooling	
Operating Temperature	Charge	0 ~ 50
	Discharge	-20 ~ 65
Operating Humidity	< 95%R.H.	
Communication	CAN/RS485	
Dry Contact	Y	
System Parallels		15 (GBMS)
		> 15 (GBMS+IPC)
Screen	Optional	

## Module size



## Rack

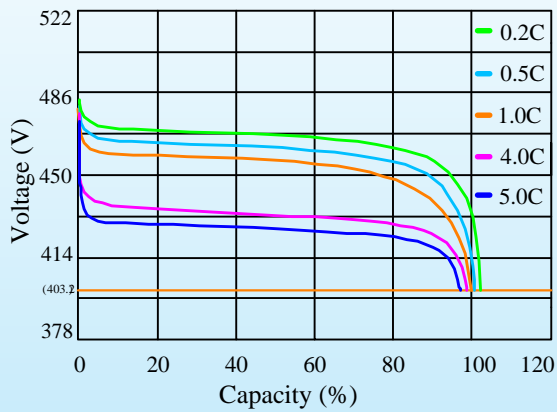


Rack TP90(S)

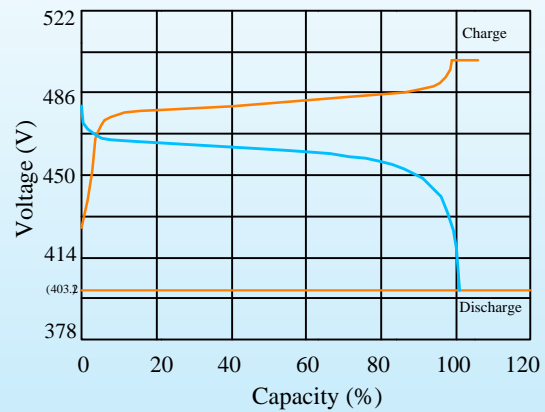
TP90S-with LCD TP90-without LCD

## Characteristics Curve

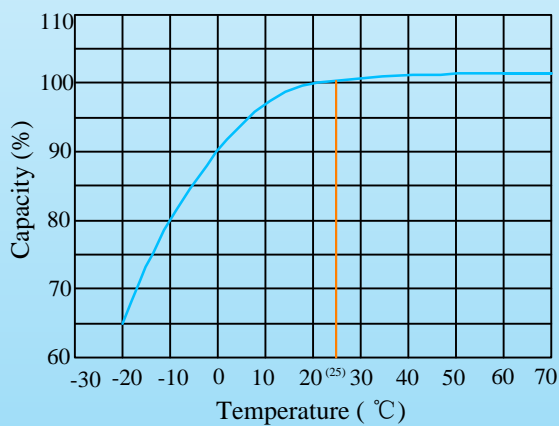
Discharge Performance at 25 °C



Charge and Discharge at 25 °C, 0.5C



Temperature effects on capacity at 0.5C



Cycle life with DOD at 25 °C  
4C discharge and 1C charge

