

## 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

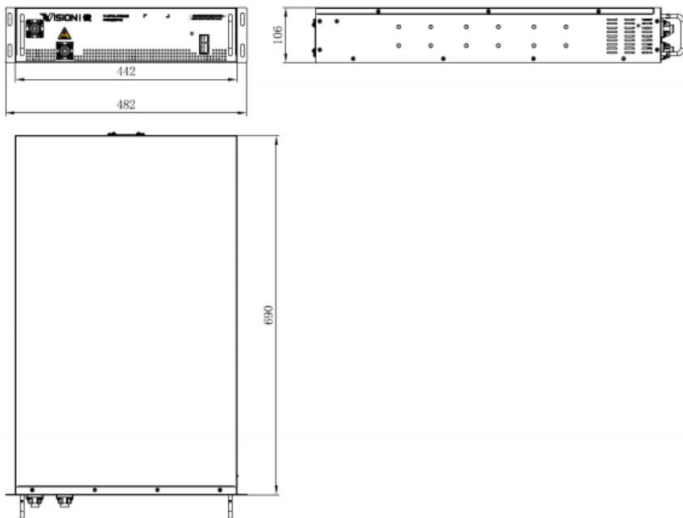
## Performance Data

| Time(min)           | 10  | 15  | 30  | 45 | 60 |
|---------------------|-----|-----|-----|----|----|
| Constant Power(kw)  | 114 | 100 | 51  | 34 | 26 |
| Constant Current(A) | 245 | 200 | 100 | 66 | 50 |

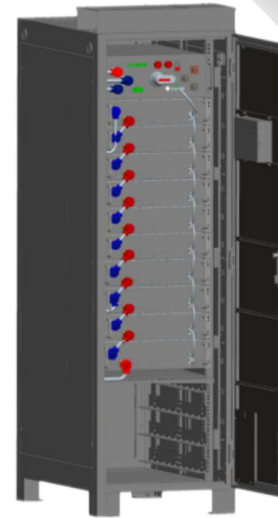
## Rack Specification

|   |                            |
|---|----------------------------|
| Voltage Range(V)                        | 448~552                    |
| Cell                                    | 3.2V50Ah                   |
| Series & Parallels                      | 160S1P                     |
| Rated Voltage(V)                        | 512                        |
| Rated Capacity(Ah)                      | 50                         |
| Rated Energy(KWh)                       | 25.6                       |
| Recommended Charging Current(A)         | 10~25                      |
| Discharge cut-off Voltage(V)            | 448                        |
| Charge Voltage(V)                       | 544 ~ 552                  |
| 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. 550                |
| Internal Resistance Fully Charged@ 25°C | ≤100mOhms                  |
| Thermal Management                      | Air Cooling                |
| Charge Temperature                      | 0 ~ 50 °C                  |
| Discharge Temperature                   | -20 ~ 65°C                 |
| Operating Humidity                      | < 95%R.H (non-condensing). |
| 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

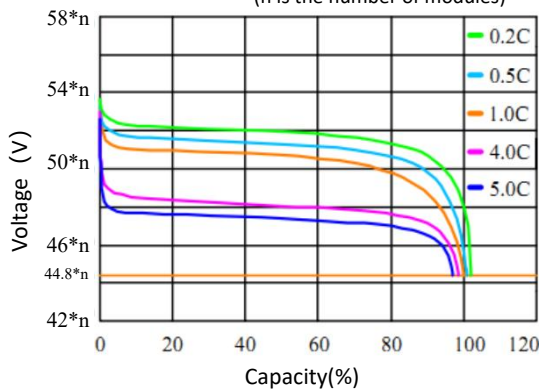


Rack TP100(S)

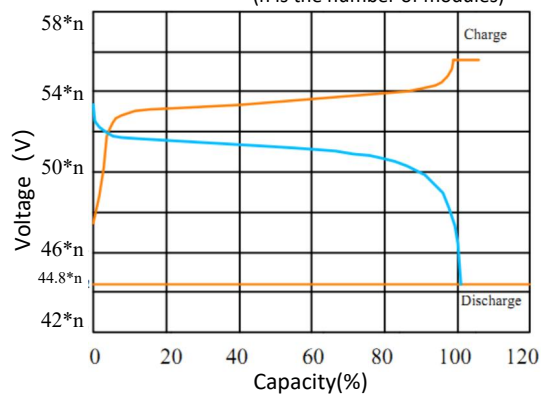
TP100S-with LCD TP100-without LCD

### Characteristics Curve

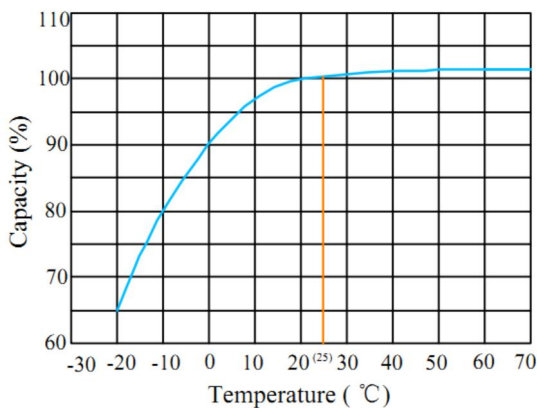
Discharge Performance at 25 °C  
(n is the number of modules)



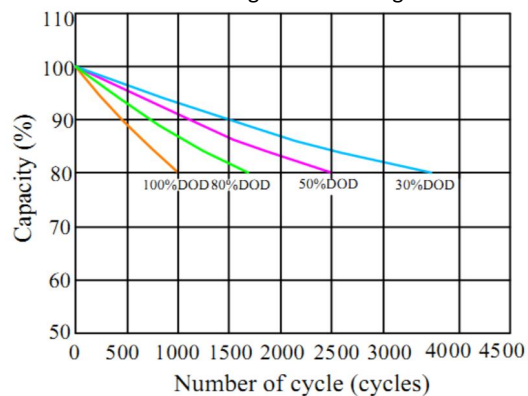
Charge and Discharge at 25 °C, 0.5C  
(n is the number of modules)



Temperature effects on capacity at 0.5C



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



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Call +86-755 6685 1118

Fax +86-755 6685 0678

E-Mail sales@vision-batt.com

Website www.vision-batt.com



WeChat official account