

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

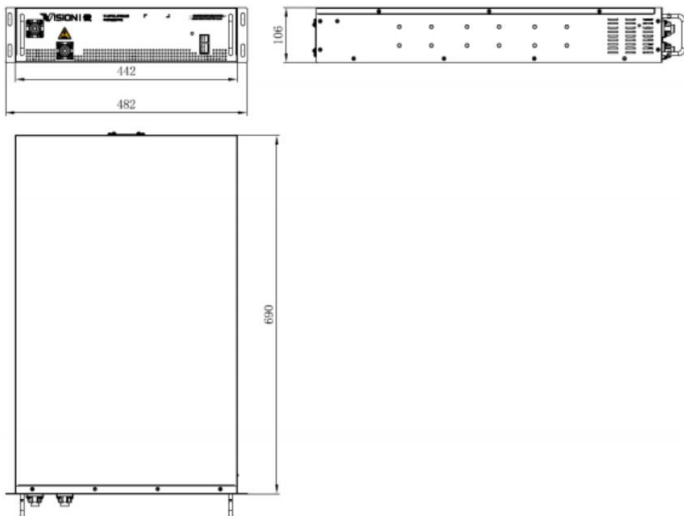
Performance Data

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

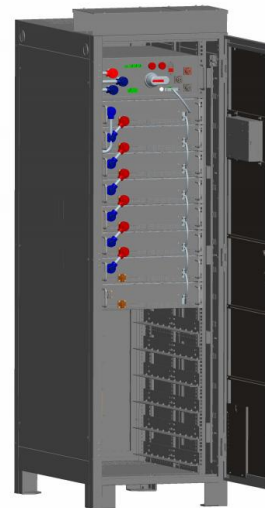
Rack Specification

| | |
|---|--------------------|
| 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*1500) 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

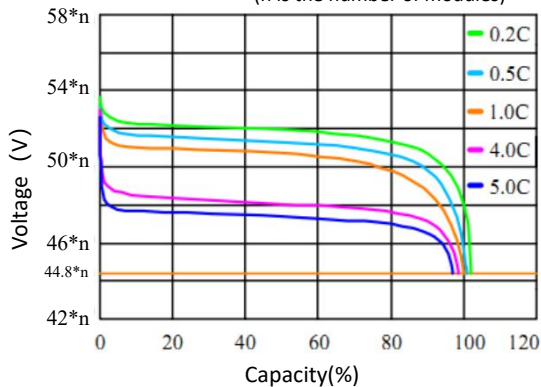


Rack TP80(S)

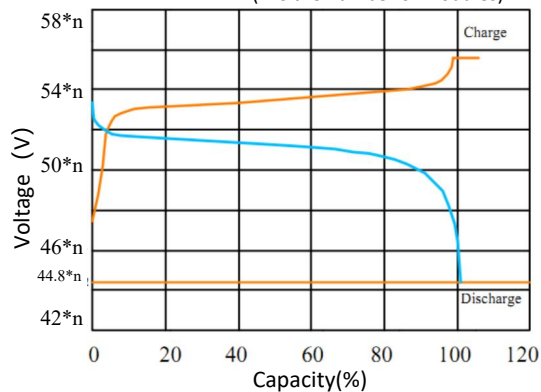
TP80(S)-with LCD TP80-without LCD

Characteristics Curve

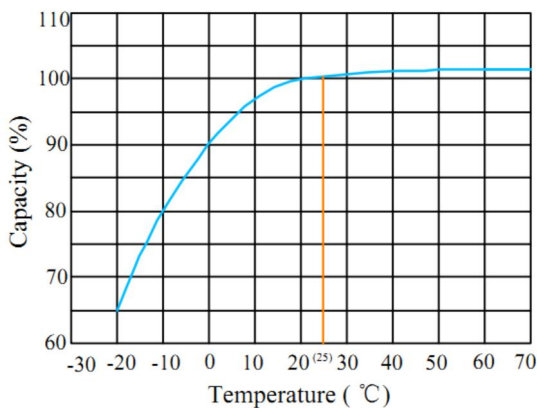
Discharge Performance at 25 °C
(n is the number of modules)



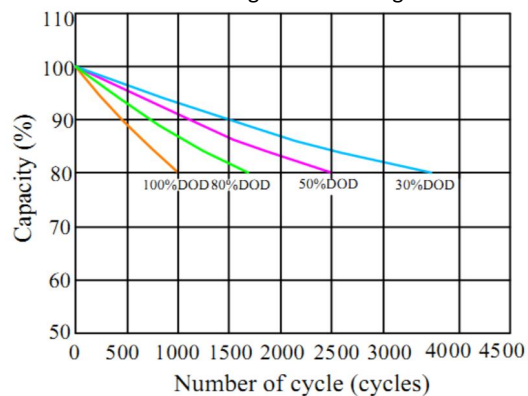
Charge and Discharge at 25 °C, 0.5C
(n is the number of modules)



Temperature effects on capacity at 0.5C



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



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