

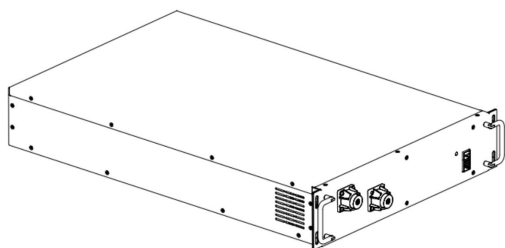
Overview

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: $\pm 3\text{mv}$, $\pm 1^\circ\text{C}$;
- 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

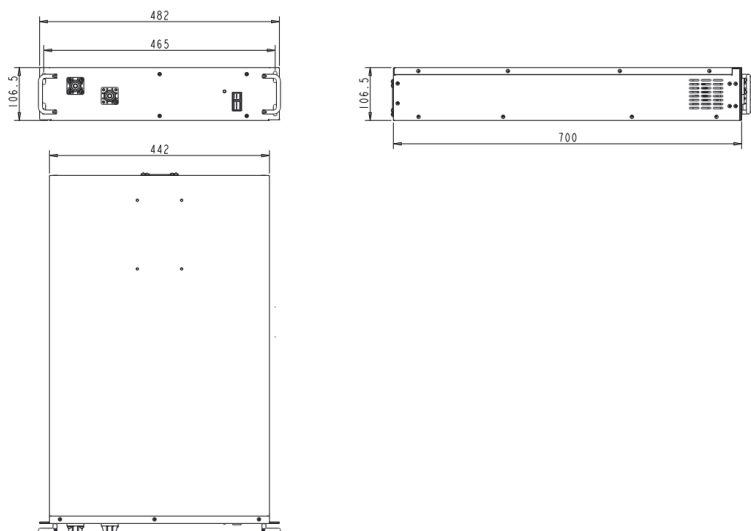
Performance Data

Time(min)	5	6	7	10	15
Constant Power(kw)	168	168	144	102	73
Constant Current(A)	440	440	370	255	180

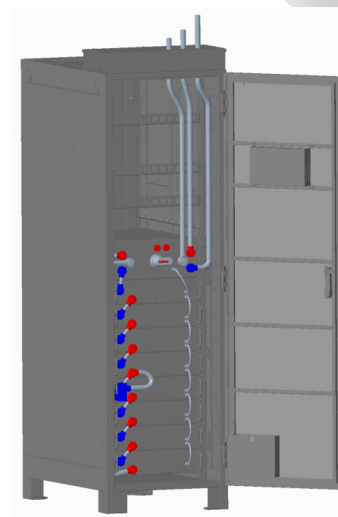
Rack Specification

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/0.5C,100%DOD)	≥ 2000
Short-circuit Current(< 10ms)	Approx.8500
System Dimension(W* D* H)	(600*1000*2000) mm
Total Weight(Kg)	Approx. 520
Internal Resistance Fully Charged@ 25°C	$\leq 48\text{mOhms}$
Thermal Management	Fan Cooling
Charge Temperature	0 ~ 50 °C
Discharge Temperature	-20 ~ 65°C
Operating Humidity	< 95%R.H.
Communication	CAN/RS485/TCP
System Parallels	$\leq 15(\text{GBMS})$
Dry Contact	3 outputs, 1 input
Design life	15 years

Module size



Rack

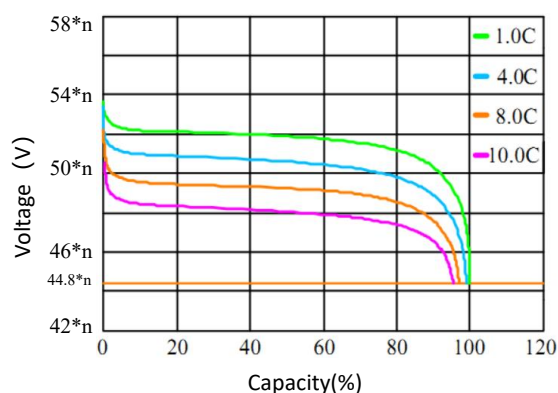


Rack TPH160(S)

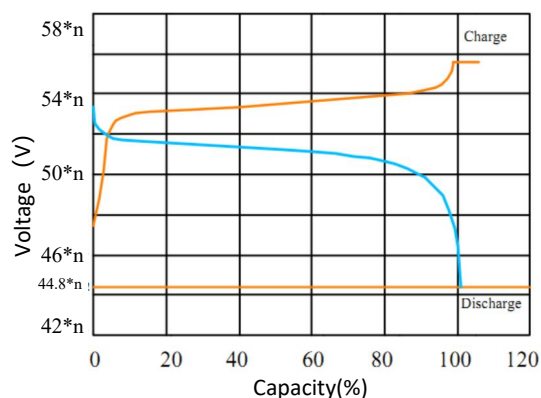
TPH160S-with LCD TPH160-without LCD

Characteristics Curve

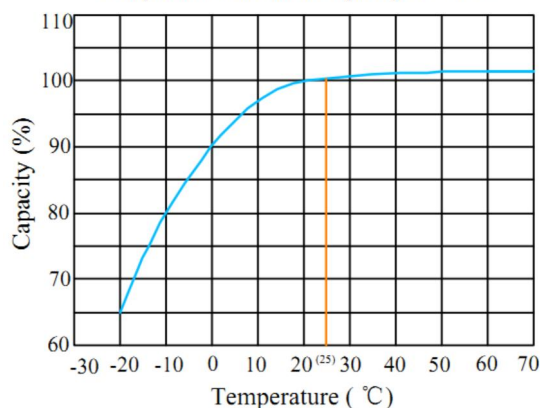
Discharge Performance at 25 °C
(n is the number of modules)



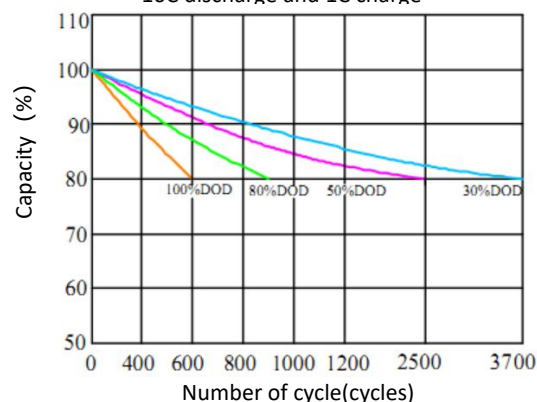
Charge and Discharge at 25 °C, 0.5C
(n is the number of modules)



Temperature effects on capacity at 0.5C



Cycle life with DOD at 25°C
10C 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