

HIGH VOLTAGE BATTERY

PS-56321000-LHV

563.2 v 100 Ah

Features

- ▶ Internal cell balancing ,Passive equalization , the maximum equalization current up to 200mA.
- ▶ High-precision cell voltage and temperature acquisition: $\pm 3\text{mv}$, $\pm 1\text{C}$.
- ▶ 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.



System Specification

power solid 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

Technical Specifications

Model **PS-56321000-LHV**

Voltage Range(V)	492.8~607.2
Cell	3.2V50Ah
Series & Parallels	176S2P
Rated Voltage(V)	563.2
Rated Capacity(Ah)	100
Rated Energy(KWh)	56.32
Recommended Charging Current(A)	20~50
Discharge cut-off Voltage(V)	492.8
Charge Voltage(V)	598.4~ 607.2
Cycle Life(@25°C, 0.5C/2C, 100%DOD)	> 2500
Short-circuit Current(< 10ms)	Approx.9000
System Dimension(W* D* H)	(600*1000*2300) mm
Total Weight(Kg)	Approx. 970
Internal Resistance Fully Charged@ 25°C	≤60 mΩ
Thermal Management	Air Cooling
Charge Temperature	0 ~ 50 °C
Discharge Temperature	-20 ~ 65°C
Operating Humidity	< 95%R.H.
Communication	CAN/RS485/TCP
Dry Contact	3 outputs, 1 input
Design life	15 years
Certification	IEC62619, IEC60068, UL9540A, UL1973, CE-LVD(EN 62477+62040), CE-EMC(IEC61000-6-2)

Performance Data

Time(min)	10	15	30	45	60
Constant Power(kw)	275	220	111	74	56
Constant Current(A)	510	400	200	133	100

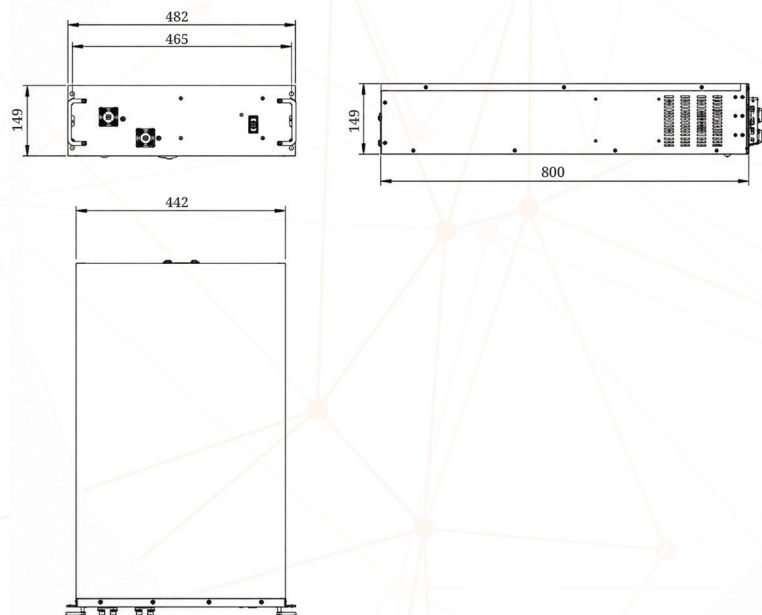
Rack



Ps-56321000-LHV

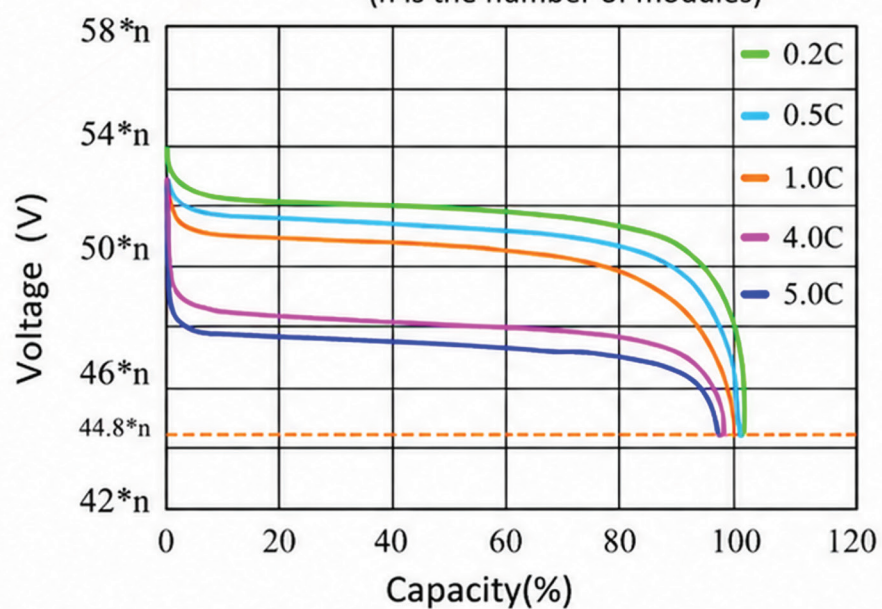
TP220S-with LCD TP220-without LCD

Module size

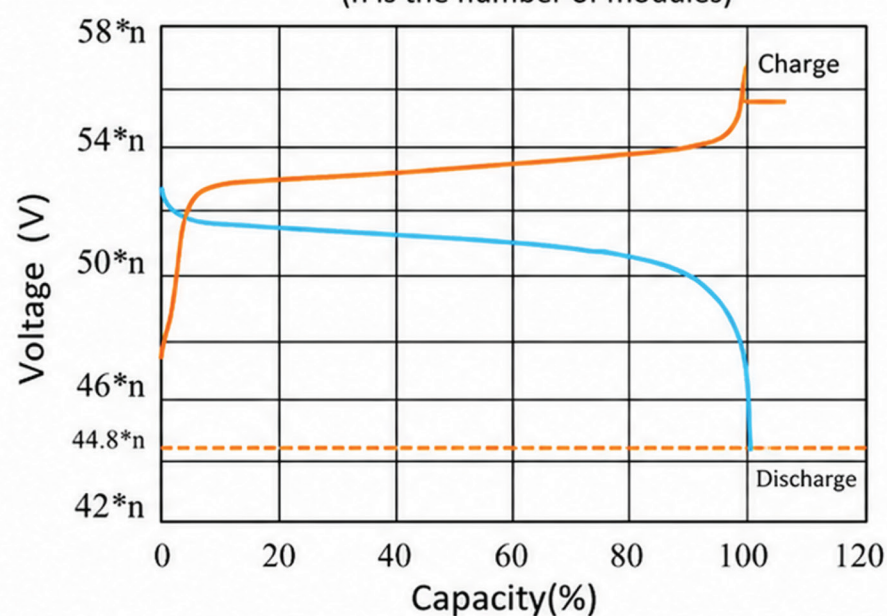


Characteristics Curve

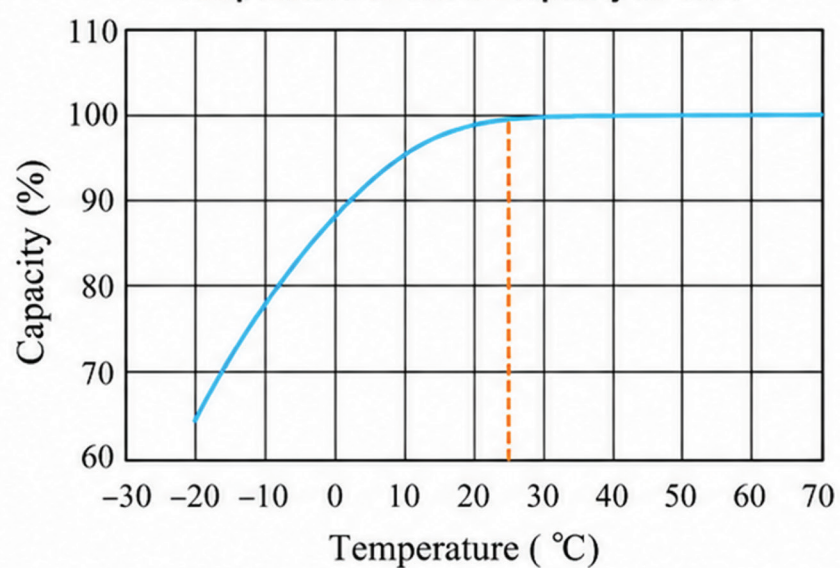
Discharge Performance at 25 °C
(n is the number of modules)



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

