

Introduction

- ▶ V-LFP51100 is a new type of battery developed by Vision. It is suitable for the installation of 19-inch cabinets.
- ▶ V-LFP51100 has high-energy density, redundant safety design, long life, light weight, easy installation, maintenance free, remote monitoring, etc.
- RS485 and CAN communication output for monitoring .
- Built-in BMS with Charging current limitation.
- Built-in automatic protection for over-charge, over-discharge, over-temperature conditions and Internal cell balancing.
- State of charge and state of health indication.
- Built-in battery control for efficient operation.
- Maintenance free.



Scenario

- Household energy storage system can meet the stable demand of household electricity consumption, and at the same time, it can reduce the cost of electricity consumption and improve the self-use rate of photovoltaic power generation by using the peakvalley price difference, which is the best choice for household electricity consumption scenarios.
- ▶ New photovoltaic energy storage hybrid system.
 - Photovoltaic configuration energy storage.
 - Household off-grid energy storage system.
 - Household emergency standby power supply.
 - Emergency backup scenario .

Specifications

Items	Battery Specification	
General parameter	Nominal voltage	51.2V
	Nominal capacity(25°C,0.5C)	100Ah
	Nominal energy (25°C,0.5C)	5120Wh
	Operating voltage	43.2V-57.6V
	Weight	43±0.5Kg
	Cell positive material	LiFePO4
	Combination mode	16S1P
	Dimensions (W * D * H)	442mm*480mm*133.5mm
	Communication interface	RS485&CAN
	IP rating	IP55
	Cycle life(0.5C, 25°C)	4000 cycles @80% DOD
	Design life(25°C)	15 years
	Internal resistance	< 30mΩ
	Information display	LED and LCD
Efficiency	> 95%	
Self discharge (25 °C)	Less than 3%/month	
Charge parameter	Recommended charging voltage	56.5V
	Maximum charging current (25 °C)	100A
	Standard charging current (25 °C)	50A
Discharge parameter	Recommended discharging voltage	49V
	Maximum discharging current (25 °C)	100A
	Standard discharging current (25 °C)	50A
Battery Management System (BMS)	BMS	Yes
	Protection function	Overvoltage protection, overcurrent protection, low-voltage protection, over temperature protection, low temperature protection, reverse connection protection, short circuit protection
	Cell balance function	Yes
Environment	Charging temperature	0~60°C
	Discharging temperature	-20~60°C
	Storage temperature	-10°C~60°C
	Relative humidity	5%~95%(non condensing)
Compatible Protocol	Growatt/Voltronic/Goodwe/AUXSOL/SMA/Victron/Luxpowertek/SRNE/Deye/Sungrow/ etc	