

## Introduction

- ▶ V-LFP48100S is a new type of intelligent battery pack developed by Vision, with built-in DC/DC modules and modular hardware design. It is suitable for the installation of 19-inch cabinets.
- ▶ V-LFP48100S has high-energy density, redundant safety design, long life, light weight, easy installation, maintenance free, remote monitoring, etc.
- **Intelligent design:** intelligent detection, SOC&SOH management, simplified O&M, and self-management.
- **Intelligent collaboration:** With the intelligent power system to realize intelligent features (such as intelligent voltage boosting and intelligent hybrid use).
- **Intelligent anti-theft design:** Intelligent software lock, displacement lock, and buzzer alarm.
- **High reliability design:** integrated BMS design, long service life.



## Scenario

Mixed use of lead and lithium

Constant voltage output

Peak cutting and valley filling

No derating for parallel

- Mixed use of new and old lithium batteries makes site expansion more convenient;
- Mixed with lead-acid battery, no battery combiner is required, and preferential discharge is supported;
- Multiple lithium batteries are used in parallel to meet the application requirements of large capacity sites;
- Support remote power supply, constant voltage 57V discharge;
- Energy storage - peak cutting and valley filling;

Item		V-LFP48100S
General parameter	Nominal voltage	48V
	Nominal capacity(25°C,0.5C)	100Ah
	Nominal energy (25°C,0.5C)	4800Wh
	Weight	40±0.3Kg
	Cell positive material	LiFePO4
	Combination mode	15S1P
	Dimensions (W * D * H)	442mm*395mm*134.5mm
	Communication interface	RS485&CAN; 2 dry contacts
	IP rating	IP20
	Shell material	Steel plate baking varnish
	Cycle life(0.2C, 25°C)	>4000 cycles @80% DOD
	Design life(25°C)	15 years
	LED Display	Alarm/Run/SOC
Electrical parameter	Operating voltage	42V-57.6V
	Maximum charging current (25 °C)	100A
	Maximum discharging current (25 °C)	100A
	Standard charging current (25 °C)	50A
	Standard discharging current (25 °C)	50A
	Recommended charging voltage	54V
	Discharge cut-off voltage	42V
	Battery input protection	BMS
	Efficiency	> 98%
	Self discharge (25 °C)	Less than 5% after 90 days storage
	Internal resistance	< 40mΩ
Maximum number of parallels	32	
Protection function	Overvoltage protection, overcurrent protection, low-voltage protection, over temperature protection, low temperature protection, reverse connection protection, short circuit protection	
Environment	Charging temperature	-40~60°C(Optional heating film) 0~60°C
	Discharging temperature	-20~60°C
	Storage temperature	-10°C~45°C
	Relative humidity	5%~95%(non condensing)
Certification		

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