

# EnerSmart

EnerSmart Li Battery Pack



## PRODUCT DESCRIPTION

The EnerSmart Li Battery Pack is designed for various 48V application scenarios, and it is composed of prismatic LFP cells, intelligent battery management system (BMS), and bidirectional DC converter (BDC). The product features active control of the charge and discharge voltages to solve the bias current and circulating current issue inside battery packs when connected in parallel. Moreover, this product supports mixed use of lithium and lead-acid batteries and can be used for smart peak shifting and off-peak power consumption to save the initial investment of the product and thus enhance the income on investment.



## APPLICATION SCENARIOS

- Newly installed PV-energy storage system
- PV system retrofit for energy storage
- Application in off-grid or no-power areas
- 48V household storage application scenarios



## PRODUCT FEATURES

- More than 10 years of designed lifetime
- Standard rack-mounted installation design (3U size), extremely High energy density
- Support for constant-voltage long-distance power supply
- Support for remote monitoring and maintenance
- Support for large current charging and discharging
- Integrated oil-damped DC circuit breaker, more convenient and safer to operate
- Various communication interfaces: RS485, CAN, and dry contact
- Integrated with high-efficiency BDC allowing for active charge and discharge control



Model	HEB48V100	HEB51.2V100
Battery Type	LFP	LFP
Rated Voltage [V]	48	51.2
Rated Capacity [Ah]	100	100
Rated energy [Wh]	4800	5120
Rated Discharging Voltage [V]	56.4	56.4
Discharging Voltage Range [V]	40-58 (consistant voltage)	40-58 (consistant voltage)
Output Power [W]	4800	4800
Max. Charging Current [A]	90	90
Max. Continuous Discharging Current [A]	100	100
Discharging End Voltage [V]	40	43.2
Cycle Life [Times]	1000/4000 (25℃, 0.5C, 80%DOD, 80%EOL)	
Balance Method	Passive balancing	Passive balancing
Dimensions [W*D*H, mm]	442*400*133	442*400*133
Weight [kg]	~39	~42
IP Grade	IP20	
Communication	RS485*1, CAN*1, and dry contact*2	
Parallel Connection	Up to 32 packs(CAN)/16 packs (RS485)	
Working Temperature [℃]	Charging: 0 to +45; Discharging: -20 to +45	
Storage temperature [℃]	0 to +40	
Relative Humidity	5%-95% RH (non-condensing)	
Heat Dissipation	Natural cooling	
Protection and Alarm	Overheat, overcurrent, short circuit, overcharging, overdischarging, etc.	
Designed Service Time	10 years	
Working Mode	Smart mode, test mode, dispatching mode	
Optional Accessories	Anti-theft gyroscope	

Note: The above information may subject to update without prior notice.