

HV-48V-100 Ah LiFePO4 Battery



High Discharge performance Lithium Battery integrated with self-designed Battery Management System (BMS) which can be widely used in various high voltage applications: UPS, Data Centres, ESS, Switchgear, Other Industrial Applications.

Key Features

- ⦿ High quality LFP cells
- ⦿ High rate charge/discharge current @ 1C/1C
- ⦿ Long design life up to 15+years @25°C
- ⦿ RS 485 Modbus / CAN Bus (Optional)
- ⦿ Multiple protection method using own BMS
- ⦿ High efficiency between charge and discharge
- ⦿ On Board Memory of events through SD Card

Specification

Model	HBL-iON-48V-100	
Electrical Characteristics	Nominal Voltage	48V
	Nominal Capacity	100 Ah
	Energy	4810 Wh
	Cycle Life	≥3000 cycles @80% DOD, 25°C
	Self-Discharge (28 days)	≤3%, @25°C
	Efficiency of charge	≥98%
	Efficiency of Discharge	≥98% @ 0.2C ≥96% @ 0.5C"
Charge	Charge Voltage	55.0V±0.1V
	Charging Method	Charge current of 0.2C up to 55.0V, then 0.02C after reaching 55.0V (CC/CV)
	Max. Charge Current	100A (1C)
	Charge Cut-off Voltage	56.25V±0.2V
Discharge	Max. Continuous Discharge Current	100A (1C)
	Discharge Cut-off Voltage	42V±0.2V
Environmental	Charge Temperature Range	0°C to 45°C
	Discharge Temperature Range	-20°C to +60°C
	Optimum Operation Temperature	20°C to 25°C
	Storage Temperature	-20°C to +25°C
	Humidity	5%≤RH≤85%
	Ingress protection rating	IP20
Mechanical	Module	MS
	Dimensions	L:483mm, W:418mm, H:223mm
	Weight(Kgs)	48
	Protection	Over Voltage, Under Voltage, Short Circuit, Over Temperature, Over Charge current, Over Discharge current
BMS, Others	Communication Protocol	RS485, MODBUS (Optional)
	SOC Light	4*LED
	Parallel	Up to 15 parallels
	LCD Screen	Optional

*Note: Features and Specifications are subject to change without notice due to continual improvement in technology