

# S-48V -75 Ah LiFePO4 Battery

HBL's S – Series deep cycle rechargeable lithium batteries are highly reliable, long-lasting, and provide more energy than the traditional Lead Acid batteries. The lithium battery packs are compact, lightweight, and easy to install. The quick charge and discharge capability make it an ideal choice for solar and other renewable energy 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-75
Electrical Characteristics	Nominal Voltage	48V
	Nominal Capacity	75 Ah
	Energy	3600 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	75A (1C)
	Charge Cut-off Voltage	56.25V±0.2V
Discharge	Max. Continuous Discharge Current	75A
	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:490mm, W:384mm, H:167mm
	Weight(Kgs)	38.5
BMS, Others	Protection	Over Voltage, Under Voltage, Short Circuit, Over Temperature, Over Charge current, Over Discharge current
	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