

BSLBATT 48V LITHIUM POWER LITHIUM BATTERY

NorthBa 
Power for Life

B-LFP48

2.5kWh/5.0kWh/6.6kWh

8.1kWh/10kWh

FEATURES

- 5.12kWh expandable up to 81.92kWh
- AC Coupled for both new and retrofitted installations
- 4.8kW charge and discharge rate
- LiFePo4 cell, safe and environmentally friendly
- Suitable for both indoor and outdoor installation (IP65 rating)
- Premium 10 Year Warranty
- Modular design gives highest flexibility
- 16 Cell lithium batteries as denoted with the voltage 51.2v
- Multiple communication interfaces: RS485, RS232, CAN
- Long life cycle, more than 6000 times
- Safety Cert. RCM, IEC, FCC, TUV, CE, UN38.3, and so on
- Module level auto-balancing
- 0.5C/1C continual charge and discharge
- Proven BMS with widest compatibilities with inverters
- Simple buckle fixing minimize the installation time and cost

APPLICATIONS

- Back-up power
- Self-consumption optimisation
- Off-grid power supply

FIELDS OF APPLICATION

- › Hotels
- › Domestic-residential
- › Schools or Institutions
- › Places of public interest
- › Gyms and sports facilities
- › Shops and small businesses
- › Car parks in shopping centres and supermarkets



Lithium battery
BSLBATT

LiFePO₄
Lithium Battery

www.northbatt.com



BSLBATT 48V LITHIUM BATTERY

Nominal Parameters

Battery Technology	Lithium iron Phosphate(LiFeP04)				
Model	B-LFP48-50E	B-LFP48-100E	B-LFP48-130E	B-LFP48-160E	B-LFP48-200E
Rated Voltage(V)	51.2	51.2	51.2	51.2	51.2
Rated Capacity(Ah)	50	100	130	160	200
Energy(kWh)	2.5	5.0	6.6	8.1	10.0
Dimension one(mm)	W485*H390*D132	W485*H442*D177	W560*H442*D177	W640*H405*D225	W485*H503*D267
Dimension two(mm)	W485*H510*D180	W630*H780*D160			
Weight(Kg)	29	48	56	85	96
Design life(25°C)	10 years				
Cycle life(80°C DOD @25°C)	6000 cycles				

Electrical Characteristics

Voltage Range (V) DC	44.8 to 58.4V DC / Recom. Charge Voltage : 55 - 56V DC / End of Discharge Voltage : 47 - 48V DC				
Peak Current (A)	100A	150A	150A	180A	150A
Continuous Current (A)	50A	100A	100A	150A	100A
Max Continuous Charge Current (A)	50A	100A	100A	100A	100A
Max Continuous Discharge Current (A)	50A	100A	120A	150A	180A
Battery Pack Round - Trip efficiency	> 95% (under specific condition)				
Communication Interface	RS232/RS485/CAN				
DC Disconnect	Circuit Breaker, Contactor, Fuse				

Operating Conditions

Installation Location	Indoor / (stand wall-mounted)		
Operating Temperature	Charge	-10 to 45 °C	
	Discharge	15 to 30 °C	
	Storage	-10 to 45 °C	
		25°C	6 months
		45°C	3 months
		60°C	1 month
Humidity	5% to 95%		
Altitude	Max. 2,000m		
Cooling Strategy	Natural Convection		

Certification

Safety	UL11642/CE/RCM/FCC/TUV (IEC 62619) /UL1973
EMC	IEC61000-6-1 , IEC61000-6-3
Hazardous Materials Classification	Class 9
Transportation	UN38.3
IP LEVEL	IP23