

LOW VOLTGE ENERGY STORAGE SYSTEM CABINET MODEL

- 2 Address:Room 1208 No.3, Wenming 1st Road, Citic City Age B Building Huizhou, Guang Dong China
- C Tel: +86-752-2819469
- Email:inquiry@bsl-battery.com
- www.lithium-battery-factory.com



The design idea of cabinet model

The cabinet model designed for indoor photovoltaic system is easily adaptable energy storage solution. The cabinet model are a family of 48V battery modules and accessories. The 48V family is designed as a drop-in replacement for similar sized lead-acid batteries offering twice the run-time and nearly half the weight.

The 48V series is designed for lower voltage, lower power and longer run-time applications. They are built with LFP Technology that offers outstanding intrinsic safety and excellent float and cycle life resulting in low cost of ownership.



Key Features



Safety and Long cycle life

LiFePO4 composition - provides exceptional safety and longevity High safety and reliability 6,000cycles and 10 year service life



Smart & Intelligent

Integrated state-of-the-art BMS to manage and monitor battery information including voltage, current and temperature as well as balance cell charging/discharging rates



Easy installation

Wall/Ground-mounted, convenient installation



Modularization

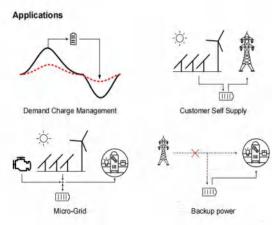
With smart BMS, the power-wall model can be cross connected to fix large capacity.



Compatiblity

Compatible with most of the available hybrid inverter





² Address:Room 1208 No.3, Wenming 1st Road, Citic City Age B Building Huizhou, Guang Dong China

C Tel: +86-752-2819469

Email:inquiry@bsl-battery.com

www.lithium-battery-factory.com



Nominal Parameters

Battery Technology	Lithium iron Phosphate (LiFePO4)			
Model	B-LFP48-50	B-LFP48-100	B-LFP48-150	B-LFP48-200
Rated Voltage (V)	51.2	51.2	51.2	51.2
Rated Capacity (Ah)	50	100	150	200
Energy (kWh)	2.50	5.00	7.50	10.00
Dimension one (mm)	W442*H132*D600mm (max)	W442*H177*D600mm (max) W44		W442*H177*D800mm (max)
Dimension two (mm)	-	- W442*H220*D800mm (ma		W442*H220*D800mm (max)
Weight (Kg)	28	48	85	98
Design life (25℃)	15 years			
Cycle Life (25°C)	6000 cycles			

Electrical Characteristics

Voltage Range (V) DC		44.8 to 58.4V DC		
Standard charge current (A)	10A (0.2C)	20A (0.2C)	30A (0.2C)	40A (0.2C)
Standard discharge current (A)	10A (0.2C)	20A (0.2C)	30A (0.2C)	40A (0.2C)
Max continuous charge current (A)	50A (1C)	100A (1C)	100A (0.67C)	100A (0.5C)
Max continuous discharge current (A)	50A (1C)	100A		
Battery Pack Round-Trip Efficiency	>95% (under specific condition)			
Communication Interface	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℃	6months	
		45°C	3 months	
		60°C	1 month	
Humidity	5% to 95%			
Altitude	Max. 2,000m			
Cooling Strategy	Natural Convection			

Certification

Safety	Cell	UL1642	
	Battery Pack	CE / RCM / FCC / TUV (IEC 62619) / UL1973	
EMC		IEC61000-6-1, IEC61000-6-3	
Hazardous Materials Classification		Class 9	
Transportation			
IP LEVEL		EVEL IP54 (IP65 Option)	

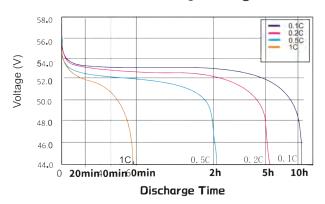
- 2 Address:Room 1208 No.3, Wenming 1st Road, Citic City Age B Building Huizhou, Guang Dong China
- C Tel: +86-752-2819469
- Email:inquiry@bsl-battery.com
- www.lithium-battery-factory.com

Discharge Curve

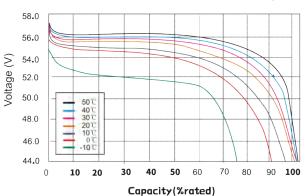


Characteristics Curve

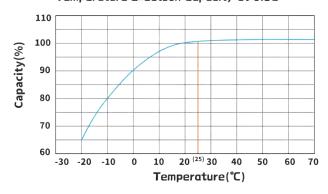
Different Rate Discharge Curve @25 °C



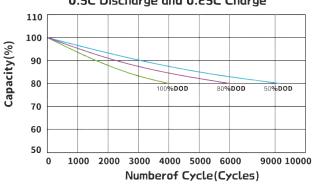




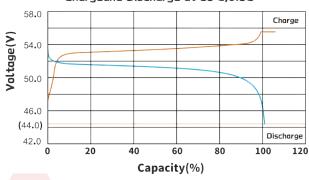


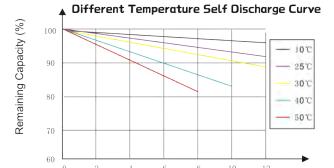


Cycle Life with 000 at 25°C 0.5C Discharge and 0.25C Charge



Chargeand Discharge at 25°C,0.5C





Storage Time(Months)



Address:Room 1208 No.3, Wenming 1st Road, Citic City Age B Building Huizhou, Guang Dong China

C Tel: +86-752-2819469

Email:inquiry@bsl-battery.com

www.lithium-battery-factory.com