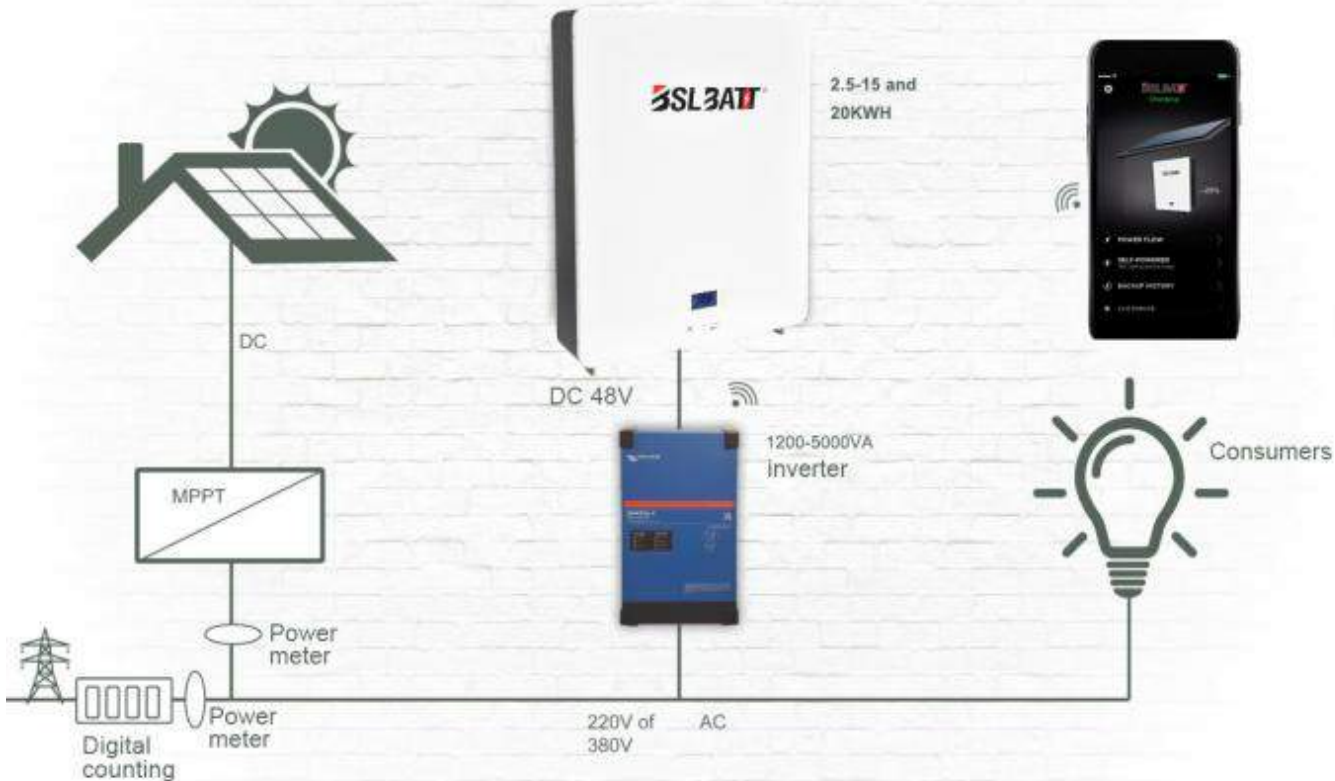


LOW VOLTGE ENERGY STORAGE SYSTEM POWER-WALL

STORE YOUR SOLAR ENERGY IN OUR ENERGY BOX



The design idea of power-wall

The power-wall model designed for indoor photovoltaic system is easily adaptable energy storage solution. The power-wall 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

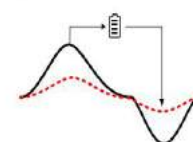
With smart BMS, the power-wall model can be cross connected to fix large capacity.



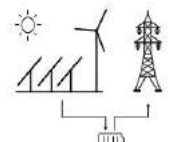
Compatibility

Compatible with most of the available hybrid inverter

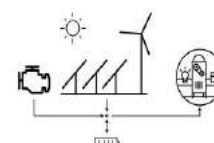
Applications



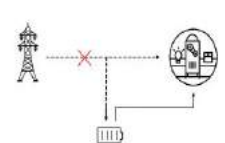
Demand Charge Management



Customer Self Supply



Micro-Grid



Backup power

Nominal Parameters

Battery Technology	Lithium iron Phosphate (LiFePO4)				
Model	B-LFP48-50	B-LFP48-100	B-LFP48-150	B-LFP48-200	B-LFP48-240
Rated Voltage (V)	51.2	51.2	51.2	51.2	51.2
Rated Capacity (Ah)	100	100	150	200	240
Energy (kWh)	2.5	5.0	7.5	10.0	12.0
Dimension one (mm)	W300*H500*D147mm	W490*H500*D147mm	W490*H600*D230mm	W490*H820*D140	-
Dimension two (mm)	W485*H510*D180mm	W630*H780*D160mm			
Weight (Kg)	56	68	76	96	115
Design life (25°C)	10 years				
Cycle Life (80% DOD @ 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)	48A (0.2C)
Standard discharge current (A)	10A (0.2C)	20A (0.2C)	30A (0.2C)	40A (0.2C)	48A (0.2C)
Max continuous charge current (A)	50A (1C)	100A (1C)	100A (0.67C)	100A (0.5C)	100A (0.42C)
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°C	6months		
		45°C	3 months		
60°C	1 month				
Humidity	5% to 95%				
Altitude	Max. 2,000m				
Cooling Strategy	Natural Convection				

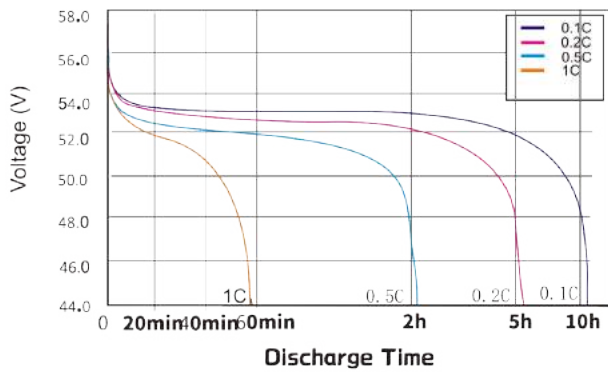
Certification

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	UN38.3	
IP LEVEL	IP54 (IP65 Option)	

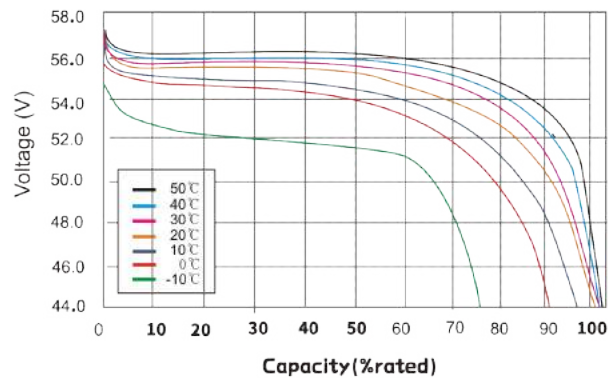
Discharge Curve

Characteristics Curve

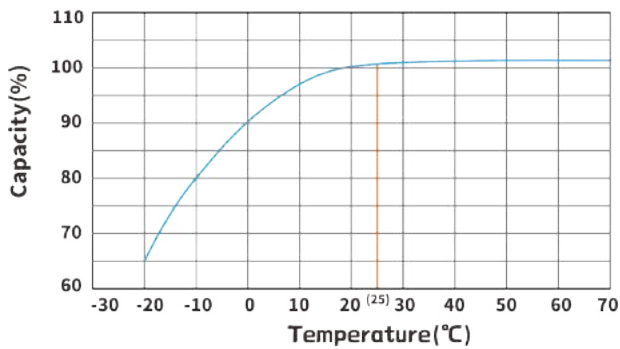
Different Rate Discharge Curve @25 °C



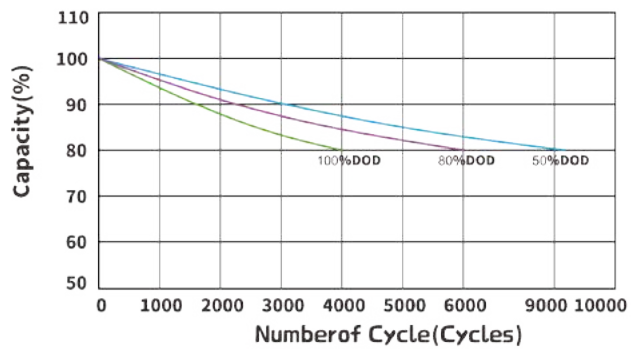
Different Temperature Discharge Curve @ 0.5C



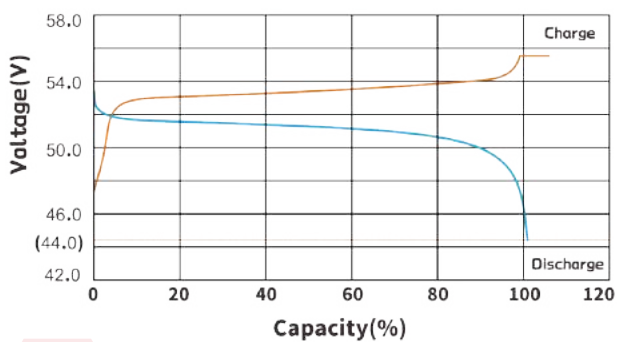
Temperature Effectson Capacity at 0.5C



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



Chargeand Discharge at 25°C,0.5C



Different Temperature Self Discharge Curve

