



RECHARGEABLE LI-ION BATTERY SYSTEM

LIB BSS01L16 Series



Safe

48 Vdc low-voltage system with automatic fire extinguishing and pressure relief, reducing the risk of accidents.



Durable

314Ah large cells with 8,000+ charge/discharge cycles, ensuring stable operation for up to 10 years.



Easy-to-install

Stackable connection design reduces installation complexity and improves efficiency.



Protective

Each battery pack equipped with a circuit breaker for enhanced equipment and personal safety.



Enclosure

IP65-rated waterproof and dustproof enclosure, suitable for outdoor use.



Eco-Friendly

Built with environmentally friendly materials, the system is completely pollution-free.

Model	LIB BSS01L16 I	LIB BSS01L16 II	LIB BSS01L16 III
Appearance			
Indication of Appearance			
Performance			
Total Energy Capacity (kWh)	16.08	32.15	48.23
Usable Energy Capacity (kWh)	16.08 (DOD 100% at most)	32.15 (DOD 100% at most)	48.23 (DOD 100% at most)
Nominal Voltage (V)	51.2		
Voltage Range (V)	44.8~57.6		
Battery Capacity (Ah)	314	628	942
Rated DC Power (kW)	8	12	12
Rated Charge/Discharge Current (A)	160/160	250/250	250/250
Max Charge/Discharge Current (A) ^[1]	160/160	250/250	250/250
Peak Charge/Discharge Current (A) ^[2]	180/180	300/300	300/300
Max. Short Circuit Current (kA)	10		
Cycle Life	≥8000 cycles, @25±2°C, 70%EOL		
General			
Battery Type	LiFePO ₄ (LFP)		
Dimensions (W x H x D [mm])	850×458×440	850×701×440	850×944×440
Weight (kg)	136±3	251±3	366±3
Ingress Rating	IP65		
Charging Temperature Range (°C)	0~50		
Discharging Temperature Range (°C)	-20~50		
Operating Humidity	≤95% (Non-condensing)		
Altitude (m)	≤3000		
Installation Method	Stack		
Cooling Strategy	Natural convection		
Warranty ^[3]	10 years		
Communication Port	CAN, RS485		
Certificate	IEC 61000-6-1/2/3/4 / IEC 62619 / IEC 62040-1 / UN38.3		
Country of Manufacture	China		

[1]The current is affected by temperature and SOC.

[2]Test condition: 25±2°C, last for 10 sec.

[3]Conditions apply, refer to EnergyLIB Warranty Letter at www.energy-lib.com.