



LZH Series

UPS Li-ion Battery System

High-power and high-energy-density lithium-ion battery solutions for data center less than 5 minutes backup applications, along with extremely safe and space-efficient advantages.



Safe & Reliable

IEC 62619 & UL 1973 certified / UL9540A tested



Lower TCO

Higher cycle life and maintenance free, lowering Total Cost of Ownership (TCO)



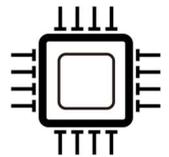
Excellent Footprint

1,032.2 kW/m² / 121.5 kWh/m²



High Power Capability

Up to 400 kW power per rack with 5 mins backup



Unique BMS Design

Built-in advanced BMS with monitoring, analysis, and prediction



Data Center



Technical Specifications

MODEL	BSPRU-	SC1081P0GLC	SC1081S0GLC	SC1081PRGLC	SC1081SRGLC	SC1081PFGLC	SC1081SFGLC
ELECTRICAL							
Nominal Capacity / Rated Capacity	47.1 kWh / 42.4 kWh						
Nominal Voltage	588.8 V						
Standard Charge Cut-off Voltage	634.8 V						
Standard Discharge Cut-off Voltage	533.6 V						
Charge Current	Continuous: 80 A @25°C						
Discharge Power (DC)	400 kW with 5 mins (BOL)						
Battery Cell Capacity	40 Ah (LFP Chemistry)						
Configuration	8 modules (23S2P) / Rack						
Life Cycle	More than 4000 cycles, 1C/1C, 25°C, EOL: 80% SOH						
SYSTEM BMS FUNCTIONS							
Monitoring / Management / Protection	<ul style="list-style-type: none"> Monitoring: battery cell voltage & temperature, battery string voltage & current, etc. Warning & Protection: over/under temperature, over-charge/over-discharge current, and over/under voltage, etc. Calculation: SoC, SoH, remaining backup time, cumulative energy, dynamic maximum available power, etc. Built-in redundant discharge circuit to ensure backup power delivery 						
Communication Bus	External: CAN 2.0, Modbus TCP/RTU, Dry contact						
ENVIRONMENT							
Ambient Operation Temperature	5°C to 35°C / 41°F to 95°F						
Humidity	5-85%						
Storage Temperature	-30°C to 40°C / -22°F to 104°F (Less than 3 months)						
Permissible Altitude	≤ 2000 m						
HEAT DISSIPATION							
Total Heat @400 kW (DC), 5 mins BOL backup	9,820 Kjoules						
Recommended Cooling Capacity @400 kW, 5 mins	0.9 kW (3 hours cooling time); 0.3 kW (8 hours cooling time)						
CERTIFICATION							
Ingression Protection	IP20						
Safety Standard	UL1973, IEC 62619, IEC/UL 60730-1 (Functional safety), UL9540A, CE Mark, UN 38.3, EN 61000-6-2, EN 61000-6-4						
Quality Standard	ISO 9001						
PRODUCT DESCRIPTIONS							
Primary / Secondary Configuration	Primary rack	Secondary rack	Primary rack	Secondary rack	Primary rack	Secondary rack	
Master BMS Configuration	Yes	N/A	Yes	N/A	Yes	N/A	
Optional Configuration – Door	Hanging door			Revolving door			
Optional Configuration – Fan	N/A				With fans		
PHYSICAL							
Dimensions (W x H x D)	With Top-hat	620 x 2185 x 625 mm / 24.4 x 86 x 24.6 inch		620 x 2185 x 650 mm / 24.4 x 86 x 25.6 inch			
	Without Top-hat	620 x 1910 x 625 mm / 24.4 x 75.2 x 24.6 inch		620 x 1910 x 650 mm / 24.4 x 75.2 x 25.6 inch			
Total Weight	With Battery Modules	900 kg / 1984.2 lbs (approximate)			905 kg / 1995.2 lbs (approximate)		
	Without Battery Module	345 kg / 760.6 lbs (approximate)			350 kg / 771.6 lbs (approximate)		

All specifications are subject to change without prior notice.



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