



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)



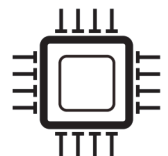
Excellent Footprint

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 ack	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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