



## 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)



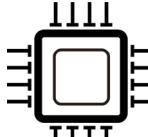
#### Excellent Footprint

1,032.2 kW/m<sup>2</sup> / 121.5 kWh/m<sup>2</sup>



#### 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
<b>ELECTRICAL</b>							
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					
<b>SYSTEM BMS FUNCTIONS</b>							
Monitoring / Management / Protection		<ul style="list-style-type: none"> <li>Monitoring: battery cell voltage &amp; temperature, battery string voltage &amp; current, etc.</li> <li>Warning &amp; Protection: over/under temperature, over-charge/over-discharge current, and over/under voltage, etc.</li> <li>Calculation: SoC, SoH, remaining backup time, cumulative energy, dynamic maximum available power, etc.</li> <li>Built-in redundant discharge circuit to ensure backup power delivery</li> </ul>					
Communication Bus		External: CAN 2.0, Modbus TCP/RTU, Dry contact					
<b>ENVIRONMENT</b>							
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					
<b>HEAT DISSIPATION</b>							
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)					
<b>CERTIFICATION</b>							
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					
<b>PRODUCT DESCRIPTIONS</b>							
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	
<b>PHYSICAL</b>							
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 1910 x 625 mm / 24.4 x 75.2 x 24.6 inch	620 x 2185 x 650 mm / 24.4 x 86 x 25.6 inch	620 x 1910 x 650 mm / 24.4 x 75.2 x 25.6 inch		
	Without Top-hat						
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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