



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)



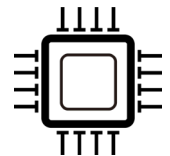
Excellent Footprint

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.



Delta Electronics, Inc.
www.deltaww.com | ESPBD@deltaww.com

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