Lithium Battery & Portable Power Systems

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LiFePO4 energy storage for residential solar, small UPS and off-grid applications.

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Prepared from the supplied Chinese battery and portable energy storage specification. Model values are retained where readable. Conflicting or missing source information is explicitly identified for confirmation. This is a reorganized English edition, not a certified translation.

Rack-mounted storage batteries

LiFePO4 | 51.2 V | RS485 / CAN | Source: Chinese specification, page 3

Parameter	100 Ah	200 Ah	300 Ah
Model	DL-LFP51.2V100AH	DL-LFP51.2V200AH	DL-LFP51.2V300AH
Energy	>= 5.12 kWh	>= 10.24 kWh	>= 15.36 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V
Constant charge current	100 A (1C)	150 A (0.75C)	150 A (0.5C)
Constant discharge current	100 A (1C)	150 A (0.75C)	150 A (0.5C)
Dimensions (mm)	450 x 510 x 205	450 x 510 x 410	450 x 510 x 615
Package dimensions (mm)	500 x 560 x 255	500 x 560 x 460	500 x 560 x 665
Product weight	40.8 kg	79.3 kg	102 kg
Package weight	45.3 kg	89.3 kg	120 kg

Shared specifications
Depth of discharge: >= 95%. Cycle life at 25 C: >= 6,000 cycles. Metal enclosure. Rack mounting. Communication: RS485 / CAN / custom.
Charging: 0 to 60 C. Discharging: -15 to 65 C. Storage: -20 to 40 C.

Confirmation required: The maximum parallel quantity is blank in the source table. Cycle-life test conditions are not fully specified on this page.

Wall-mounted battery series

LiFePO4 | 51.2 V | Source: Chinese specification, pages 4-5

Parameter	100 Ah	200 Ah	300 Ah
Model	DL-LFP51.2V100AH-G	DL-LFP51.2V200AH	DL-LFP51.2V300AH
Energy	>= 5.12 kWh	>= 10.24 kWh	>= 15.36 kWh
Nominal voltage	51.2 V	51.2 V	51.2 V
Constant charge / discharge	100 A (1C)	150 A (0.75C)	150 A (0.5C)
Dimensions (mm)	640 x 405 x 160	650 x 417 x 246	868 x 485 x 245
Package dimensions (mm)	700 x 535 x 240	715 x 465 x 385	910 x 535 x 400
Product weight	43.8 kg	81.4 kg	117.8 kg
Package weight	45.3 kg	90.5 kg	130 kg

Shared specifications
Depth of discharge: >= 95%. Cycle life at 25 C: >= 6,000 cycles. Metal enclosure. RS485 / CAN / custom communication. Integrated battery management system (BMS).
Charging: 0 to 60 C. Discharging: -15 to 65 C. Storage: -20 to 40 C.

Source conflicts: Page 4 states expansion to 10 units; page 5 lists 32. Page 5 lists rack mounting despite the wall-mounted series heading. Confirm mounting method and parallel quantity for the ordered model. Page 4 mentions a 20-year design life and 5 kW maximum output for the 100 Ah module; these are source claims and must not be generalized to every model.

Portable power stations

Integrated inverter and MPPT | Source: Chinese specification, page 9

Parameter	2.56 kWh	5.12 kWh
Model	DL-LFP25.6V100AH-Y	DL-LFP25.6V200AH-Y
Battery energy	>= 2.56 kWh	>= 5.12 kWh
Voltage / capacity	25.6 V / 100 Ah	25.6 V / 200 Ah
Rated / peak output	1 kW / 2 kW	3 kW / 6 kW
MPPT maximum current	30 A	50 A
MPPT voltage	34-150 V DC	34-150 V DC
Maximum solar panel power	840 W	1400 W
Dimensions (mm)	365 x 361 x 256	515 x 361 x 273
Package dimensions (mm)	415 x 411 x 306	565 x 411 x 323
Product / package weight	32.6 kg / 37.6 kg	47.1 kg / 53.1 kg

Shared specifications
LiFePO4 battery. AC output options: 100 / 110 / 120 Vac or 220 / 230 / 240 Vac; confirm the selected variant. Depth of discharge: >= 95%. Cycle life at 25 C: >= 6,000 cycles. Metal enclosure. Handheld / wheeled installation depending on model. RS485 / CAN / custom communication.
Charging: 0 to 60 C. Discharging: -15 to 65 C. Storage: -20 to 40 C.

The 5 kW / 10 kW rated / peak field spans the 7.68, 10.24 and 15.36 kWh variants in the source; customization is indicated. Confirm inverter configuration before ordering.

Portable power stations

Integrated inverter and MPPT | Source: Chinese specification, page 9

Parameter	7.68 kWh	10.24 kWh	15.36 kWh
Model	DL-LFP51.2V150AH-Y	DL-LFP51.2V200AH-Y	DL-LFP51.2V300AH-Y
Battery energy	>= 7.68 kWh	>= 10.24 kWh	>= 15.36 kWh
Voltage / capacity	51.2 V / 150 Ah	51.2 V / 200 Ah	51.2 V / 300 Ah
Rated / peak output	5 kW / 10 kW	5 kW / 10 kW	5 kW / 10 kW
MPPT maximum current	40 A	50 A	80 A
MPPT voltage	65-150 V DC	65-150 V DC	65-150 V DC
Maximum solar panel power	2270 W	2800 W	4540 W
Dimensions (mm)	550 x 412 x 273	550 x 412 x 355	643 x 412 x 359
Package dimensions (mm)	600 x 462 x 323	600 x 462 x 405	693 x 462 x 409
Product / package weight	75.3 kg / 86.3 kg	85.1 kg / 97 kg	107.5 kg / 130 kg

Shared specifications
LiFePO4 battery. AC output options: 100 / 110 / 120 Vac or 220 / 230 / 240 Vac; confirm the selected variant. Depth of discharge: >= 95%. Cycle life at 25 C: >= 6,000 cycles. Metal enclosure. Handheld / wheeled installation depending on model. RS485 / CAN / custom communication.
Charging: 0 to 60 C. Discharging: -15 to 65 C. Storage: -20 to 40 C.

The 5 kW / 10 kW rated / peak field spans the 7.68, 10.24 and 15.36 kWh variants in the source; customization is indicated. Confirm inverter configuration before ordering.

Application & technical notes

Additional source information and points to confirm

Features described in the source
Deep cycling, modular design, parallel expansion, integrated protection and RS485 / CAN communication. Intended applications include household energy storage, small UPS systems and off-grid solar power.

Portable series feature notes (source page 7)
The source describes optional 110 V or 220 V pure sine wave output, optional solar charging / MPPT, a 3 W emergency LED, 12 V / 5 A DC output and USB / Type-C outputs. These statements are not unambiguously tied to every model. Confirm ports, lights and charging options on the specific unit. The page states 6,000 cycles at 80% DoD; do not apply that condition to all model tables without confirmation.

Performance curves (source page 10)
The source shows cycle life versus depth of discharge, temperature-related capacity and life, charge time, room-temperature discharge performance and SOC versus open-circuit voltage. Numeric curve data are not reliably readable; this edition does not reconstruct or invent data from those graphs.

Items requiring confirmation
1. Parallel quantity and mounting method for each model.
2. Inverter compatibility, firmware and CAN / RS485 protocol profile.
3. AC voltage, socket type, frequency and local compliance requirements.
4. Complete cycle-life conditions, warranty terms and available compliance reports.
5. 25.6 V 100 Ah battery variants mentioned on source pages 2 and 4 lack a complete dedicated storage-battery table.
6. Photos may represent a series; nameplate specifications take priority.

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