



MODULAR SERIES LFP LITHIUM BATTERY

 | **CWD-MDL-24V-200Ah**  | **CWD-MDL-48V-100Ah**

CW DEFENCE Modular Series Lithium Battery solutions based on reliable Lithium Iron Phosphate cells are available in 25.6V and 51.2V options. CW DEFENCE lithium batteries with deep-cycle discharge rates provide great performance in long-term energy storage solutions. CW DEFENCE Modular Series Lithium Battery solutions, which can be utilized in a broad scope of projects such as residential energy solutions, military bases, power stations and independent energy storage solutions, are offered to users with many unique features.



High Performance

Great performance based on the latest generation of LiFePO technology



Smart Management System

The advanced built-in BMS technology ensures a safe operation



Long Lifespan

Long lifespan up to 5000 cycles



Durable Metal Case

Aesthetic, compact and durable metal cabinet design



Expandable Capacity

Parallel Connection up to 16 Batteries



Heat Resistant

Temperature sensor and heat resistant casing



IP65 Protection Class

IP65 compatible metal cabinet and connector components



CW DEFENCE Modular Series Lithium Batteries, which are made out of heat-resistant LFP cylindrical battery cells in a fireproof battery case, are equipped with temperature sensors for additional safety. Furthermore, the batteries, which were manufactured following our quality and security concept, are designed to feature a BMS (Battery Management System) with balancing function, pure copper conductors and reliably performing LFP battery cells.



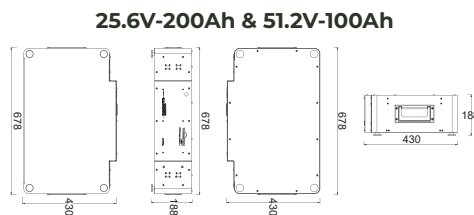
CW DEFENCE Modular Series LFP Lithium Batteries with advanced built-in BMS allow up to 16 units connected in parallel with no performance loss. This results in energy storage capacities of up to 80kWh in a single battery-bank.

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TECHNICAL SPECIFICATIONS

| ELECTRICAL SPECIFICATIONS | CWD-MDL-24V-200Ah | CWD-MDL-48V-100Ah |
|---------------------------------------|---|-------------------|
| Nominal Voltage [V] | 25.6 | 51.2 |
| Nominal Capacity [Ah] | 200 | 100 |
| Nominal Energy [Wh] | 5120 | 5120 |
| Recommended Charging Current [A] | 30 | 30 |
| Maximum Charge Current [A] | 50 | 50 |
| Recommended Charging Voltage [V] | 28.4 | 56.8 |
| Maximum Charge Voltage [V] | 29.2 | 58.4 |
| Recommended Discharge Current [A] | 50 | 50 |
| Maximum Discharge Current [A] | 100 | 100 |
| Discharge Cut-off Voltage [V] | 22.4±0.2 | 44.8±0.2 |
| CYCLE SPECIFICATIONS (at 25°C) | | |
| 100% D.O.D | 2000 Cycles | |
| 50% D.O.D | 3400 Cycles | |
| 30% D.O.D | 4800 Cycles | |
| SAFETY AND STANDARDS | | |
| Overcharge Protection | Yes | |
| Overdischarge Protection | Yes | |
| Overcurrent Protection | Yes | |
| Short Circuit Protection | Yes | |
| Overtemperature Protection | Yes | |
| Temperature Sensor | Yes | |
| Adjustable Charge / Discharge Current | Yes | |
| Grounding | Yes | |
| Cell Type | LFP 32700 Cylindrical | |
| Safety Standards | IEC 61960 / 62133-2 | |
| ENVIRONMENTAL CONDITIONS | | |
| Charging Temperature [°C] | 0 ~ +60 | |
| Discharge Temperature [°C] | -20 ~ +60 | |
| Storage Temperature [°C] | 0 ~ +35 | |
| Humidity (Non-Condensing) [%] | Maximum 95% | |
| Protection Class | IP65 | |
| Design Life [Year] | >10 | |
| Warranty [Year] | 5 | |
| ADDITIONAL INFORMATION | | |
| Dimensions (WxDxH) [mm] | 679x431x189 | |
| Weight [kg] | 55.5±0.5 | |
| Battery Connector | IP67 Protected Positive (+) and Negative (-) Pole Connector | |
| Serial Connection | No | |
| Parallel Connection | Yes (Max. 16 pcs) | |
| Communication | CAN / RS485 | |
| Casing Material | Metal Case | |

PHYSICAL CHARACTERISTICS



- * CW DEFENCE reserves the right to change the specifications of the products without prior notice.
- * The specified charge, discharge, capacity and life values are valid at 25 °C and non-condensing environment.
- * CW DEFENCE products are project-based products and can realize special projects upon your requests.