

Product Datasheet

Vertical Energy Storage Battery



Description

built with top-grade A LiFePO₄ cells, this battery system is designed for over 10 years of reliable performance. Its user-friendly design ensures easy installation, operation, and maintenance — ideal for modern home energy storage applications.

Equipped with advanced protection features:

1. Over-temperature alarm and safety shutdown
2. Overcharge and over-discharge protection
3. Short-circuit protection for enhanced reliability
4. Seamless integration with UPS systems, solar power generation, and other main energy equipment

Key Features

1. **Long-cycle durability** — Rechargeable lithium system with **over 5000 deep charge–discharge cycles** for extended lifetime.
2. **Premium performance** — Built with **A+ grade cells** ensuring superior quality, stability, and efficiency.
3. **Simple setup** — **Easy installation and maintenance** for quick deployment and reliable operation.
4. **Eco-friendly design** — **Energy-efficient** and **environmentally responsible** technology supporting sustainable energy use.
5. **Reliable protection** — Rated **IP20**, offering safe and stable performance for indoor applications.
6. **Smart management** — Integrated **Battery Management System (BMS)** for real-time monitoring and protection.
7. **Flexible customization** — Supports **OEM and ODM** configurations to meet diverse project requirements.

Specification

Model	VLX-W											
	48-280L	48-330L		48-560L	48-600L		51.2-280L	51.2-300L		51.2-560L	51.2-600L	
Nominal voltage	48V						51.2V					
Cell specification	280Ah	300Ah	314Ah	280Ah	300Ah	314Ah	280Ah	300Ah	314Ah	280Ah	300Ah	314Ah
Nominal capacity	280Ah	300Ah		560Ah	600Ah		280Ah	300Ah		560Ah	600Ah	
Working volt range	42~54.75V						44.8~58.4V					
Recommended charging volt	51.75V						55.2V					
Recommended discharging cut-off volt	45V						48V					
Standard charging/Discharging current	100A											
Maximum continuous charging/discharging current	150A			200A			150A			200A		
Proper temperature	-30~60°C(Recommended 10~35)											
Allowable humidity range	<85%RH											
Storage temperature	-20~65°C(Recommended 10~35)											
Charging temperature	0~50°C											
Discharging temperature	-10~60°C											
Protection level	IP20											
Cooling method	Natural air cooling											
Maximum size (D*W*H)	248*680*880mm			890*350*1060mm			248*680*880mm			890*350*1060mm		
Net weight	136.5kg	144kg		280kg	295kg		139kg	147kg		284kg	300kg	