



LITHIUM BATTERY



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HIGH ENERGY DENSITY

More energy storage in a compact size and lightweight design. This makes them ideal for space-constrained and high-performance applications.



LOW SELF-DISCHARGE RATE

Low self-discharge rate, retaining charge for extended periods when not in use. This ensures long shelf life and readiness for use even after months of storage.



LONGER LIFESPAN

Longer lifespan, typically lasting over 2000 charge-discharge cycles. This durability reduces replacement frequency and overall maintenance costs.



MAINTENANCE-FREE

No regular servicing needed. Sealed design ensures reliable performance with zero upkeep and lower operational costs.



FAST CHARGING

Fast charging, significantly reducing downtime between uses. Their efficient charge acceptance makes them ideal for time-sensitive applications.



SAFE WITH BMS

BMS, which monitors and protects against overcharging, overheating, and short circuits. The BMS ensures reliable and secure battery performance throughout its life.



LIGHTWEIGHT & COMPACT

Lightweight and compact, offering high power in a smaller footprint. This makes them perfect for portable and space-limited applications.



ENVIRONMENTALLY FRIENDLY

Environmentally friendly as they have a longer lifespan and are recyclable, reducing waste generation. They also produce no harmful emissions during operation.



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Rating/ parameter	48V/100Ah	96V/100Ah	124V/100Ah	96V/200Ah	124V/200Ah	240V/100Ah	256V/314Ah	256V/400Ah
Battery Voltage	48V	96V	124V	96V	124V	240V	256V	256V
Battery Ah Power	100Ah	100Ah	100Ah	200Ah	200Ah	100Ah	314Ah	400Ah
Number of cells in series	15S	30S	39S	30S	39S	75S	80S	80S
Number of cells in parallel	1P	1P	1P	2P	2P	1P	1P	1P
Cell type and chemistry	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP	Li-ion, LFP
Cell voltage and Ah	3.2V/100Ah	3.2V/100Ah	3.2V/100Ah	3.2V/100Ah	3.2V/100Ah	3.2V/100Ah	3.2V/314Ah	3.2V/314Ah
Cycle Life	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000	≥3000
Maximum cut off volatge	54V	105V	136V	105V	136V	270V	288V	288V
Minimum Cut Off Voltage	42V	87V	113V	87V	113V	210V	224V	224V
Charging voltage	52V	104V	135V	104V	135V	As Per Charging Profile	As Per Charging Profile	As Per Charging Profile
Recommend charging	20A	30A		60A		30A	100Ah	30A
Max continuos charging	50A	40A		80A		50A	150A	50A
Max continuos dis charging	50A	100A		150A		100A	200A	100A
Cell over voltage protection voltage	3.6V	3.55V				3.6V	3.6V	3.6V
Cell over voltage release voltage	3.5V	3.40V				3.5V	3.5V	3.5V
Cell under voltage protection voltage	2.8V	2.85V				2.8	2.8	2.8
Cell under voltage release voltage	2.9V	3.0V				2.9	2.9	2.9
Cell under voltage protection Available	Available							
Cell over voltage protection Available	Available							
Over current protection available	Available							
Short Ciruit protection	Available, but not allowed							
Temprature protection	Available, Max 60°C							
Working Temprature	0°C-45°C					0°C-55°C		
Storage protection	As per cell OEM recommodation							
Communication	(RS485)							

Warnings:

1. Service Restriction: Installation or removal of the battery pack must be performed by authorized personnel only.
2. Water Exposure: Do not immerse or dispose of the battery pack in water.
3. Cleaning Caution: Do not clean the battery pack using a pressure washer.
4. Shock Hazard: Do not drop the battery pack, as impact may cause damage or malfunction.
5. Water Ingress: In case of water ingress due to misuse, immediately return the battery pack to the manufacturer for inspection and safety evaluation.
6. Monthly Charging: Charge the battery at least once every month to maintain health and performance.