LITHIUM BATTERY

Reachargeable LiFePO4 Lithium Battery

» Battery Management System

The unique combination of lithium iron phosphate batteries and BMS makes the lithium battery a robust, safe and easy-to-use energy storage solution. Advanced internal BMS technology combines functionality and ease of use, balancing the charge and discharge of cells and extending their cycle life.

» High Efficiency

LiFePO4 Lithium Batteries with high D.O.D values keep the system's efficiency at its peak by operating at high capacity for long periods of time and providing outstanding cycle performance.

» Durable Construction

Lithium Batteries have several advantages in use, such as low internal resistance, high efficiency, and a wide operating temperature range, when compared to conventional batteries, thanks to their high-quality components and LiFePO4 technology.

» Stylish and Compact Design

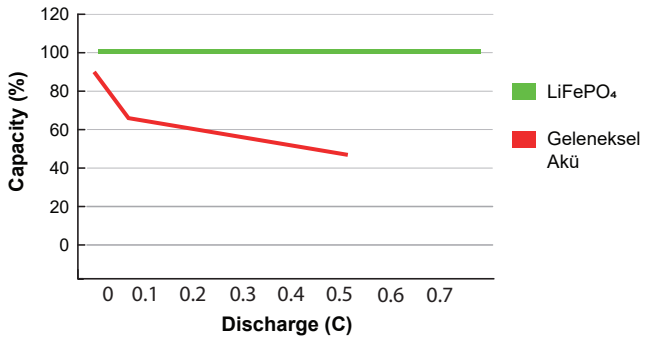
LiFePO4 batteries, which have a durable and IP65 metal case design, provide functionality and flexibility in use, thanks to special connector ends with high current carrying capacity. In addition, with its energy density per unit area, it has the advantage of size and weight compared to conventional batteries.

» Long Life & High Investment Profit

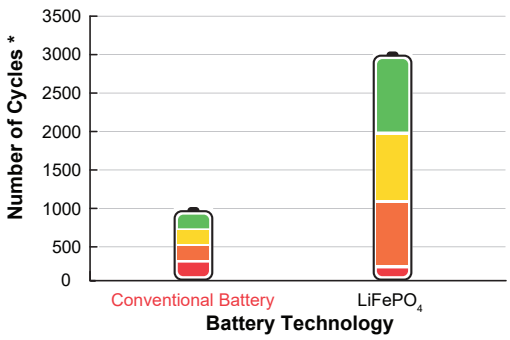
Although the initial investment cost of LiFePO4 Lithium Batteries seems to be higher compared to conventional batteries, they are the most economical solution that provides benefits at many points during their lifetime, thanks to their long service life and superior performance & efficiency compared to other lithium technologies.

» Clear & Safe Energy

Lithium Batteries with LiFePO4 technology work more safely and stably than conventional lead-acid batteries and other lithium technologies. In addition, its environmentally friendly technology as it does not emit harmful gases.



* $LiFePO_4$ batteries provide high efficiency and performance by allowing the full use of their capacity, contrary conventional batteries.



* $LiFePO_4$ battery technology has a longer lifetime and higher cycle compared to conventional batteries.

Parallel Combiner Box

Via lithium battery parallel combiner box, that can be fully compatible with $LiFePO_4$ Lithium batteries, if more energy is required, 2 or 4 lithium batteries can be connected in parallel safely and without losing performance.

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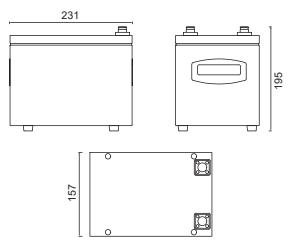
TECHNICIAL SPECIFICATIONS

VOLTAGE - CAPACITY	12.8V-60Ah	12.8V-100Ah	12.8V-200Ah	25.6V-100Ah	25.6V-200Ah	51.2V-100Ah
Nominal Voltage [V]	12.8	12.8	12.8	25.6	25.6	51.2
Nominal Capacity [Ah]	60	100	200	100	200	100
Maximum Charge Current [A]	30	30	30	50	50	50
Maximum Decharge Current [A]	60	60	60	100	100	100
Nominal Energy [Wh]	768	1280	2560	2560	5120	5120
Charge Voltage Limit [V]	14.4±0.2	14.4±0.2	14.4±0.2	28.8±0.2	28.8±0.2	57.6±0.2
Over Voltage Disconnect Voltage [V]	15.6±0.2	15.6±0.2	15.6±0.2	31.2±0.2	31.2±0.2	62.4±0.2
Decharge Voltage Limit [V]	10.6±0.2	10.6±0.2	10.6±0.2	21.2±0.2	21.2±0.2	42.4±0.2
Under Voltage Disconnect Limit [V]	11.1±0.2	11.1±0.2	11.1±0.2	22.2±0.2	22.2±0.2	44.4±0.2
CYCLE CAPACITY (25 °C)						
%100 D.O.D	2600 Cycles					
%50 D.O.D	3400 Cycles					
%30 D.O.D	4800 Cycles					
WORKING CONDITIONS						
Working Temperature [°C]	-20 ~ +70					
Storage Temperature [°C]	-45 ~ +70					
Humidity [Non-Condensing] [%]	Maksimum %95					
Ingress Protection	IP 65					
Calender Life [Year]	>10					
Warranty [Year]	2					
Safety	IEC 61960 / 62133-2					
OTHER						
Dimensions (WxDxH) [mm]	244x160x211	355x160x211	355x180x322	355x180x322	614x315x211	614x315x211
Weight [kg]	11.0±0.5	15.5±0.5	28.5±0.5	28.5±0.5	53.0±0.5	53.0±0.5
Battery Connection	M8 Connection Terminals					
Connection Type	Parallel (Serial connection is not recommended)					

PHYSICAL CHARACTERISTICS

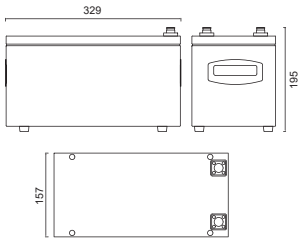
12.8V-60Ah

Unit: mm



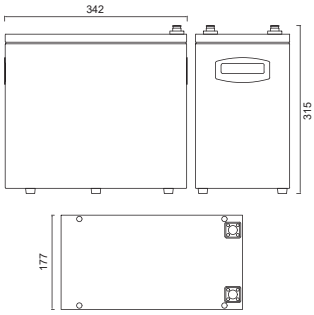
12.8V-100Ah

Unit: mm



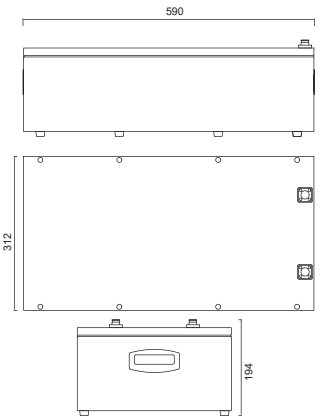
12.8V-200Ah
25.6V-100Ah

Unit: mm



25.6V-200Ah
51.2V-100Ah

Unit: mm



* The graphs above is based on full discharge.

* Note: The above valves are overage volves obtained according to the charge and disscharge cycles. They are not minimum valves. These parameters are for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.