

ECO SERIES LFP LITHIUM BATTERY

ECO SERIES LiFePO₄ Lithium Battery

Powered by **TOMMATECH**
GERMAN-BASED COMPANY

◆ ECO-LFP-24V-100Ah

◆ ECO-LFP-12V-100Ah

◆ ECO-LFP-12V-200Ah

◆ ECO-LFP-12V-60Ah



Designed with the unique combination of Lithium Iron Phosphate batteries and an advanced Battery Management System (BMS), ECO Series LFP Lithium batteries are available in 12.8V and 25.6V options and different capacities.



High Performance

Great performance based on the latest generation of LiFePO₄ technology



BMS

Active Smart Management System

Effective usage as well as with actively balancing BMS technology



Long Lifespan

Long lifespan up to 5000 cycles



Durable Metal Case

Aesthetic, compact and durable metal cabinet design



Universal Approach

Product options for different applications



Temperature Resistant

Temperature sensor and heat resistant casing



IP65 Protection Class

IP65 compatible metal cabinet and connector components



12V/60Ah



12V/100Ah



12V/200Ah & 24V/100Ah



ECO Series LiFePO₄ Lithium Batteries with impressive deep discharge values operate at high capacities throughout their lifetime with excellent cycle performance, thus maximising system efficiency. ECO Series LFP Lithium Batteries, which have a durable and IP65 metal case design, are an ecological energy storage solution that provides functionality and flexibility thanks to its high current carrying capacity connection terminals.



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ECO SERIES

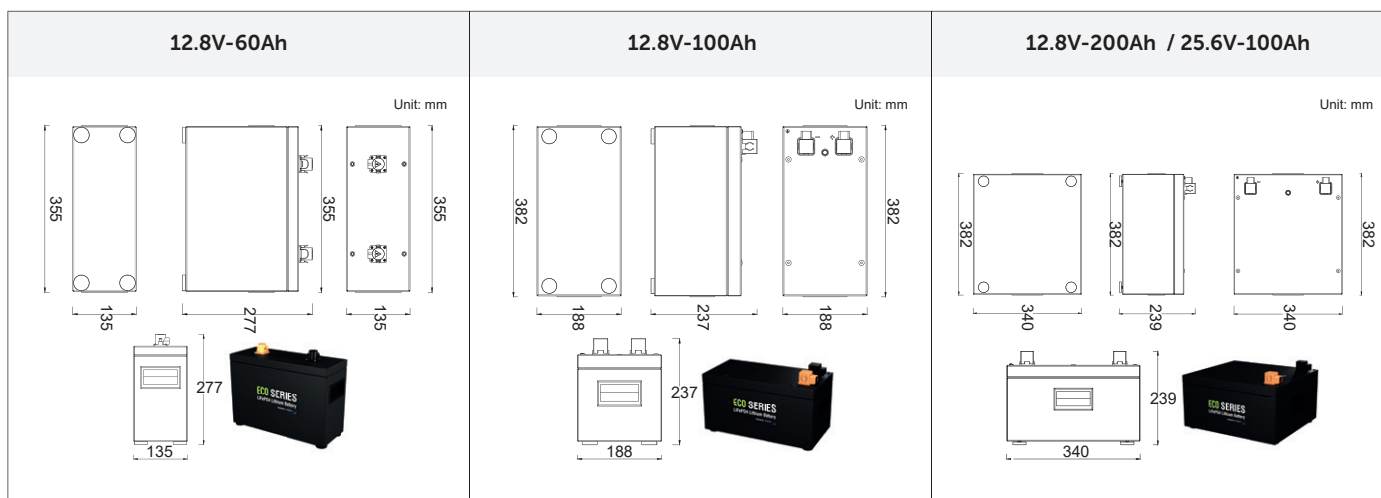
LiFePO₄ Lithium Battery

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TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	ECO-LFP-12V-60Ah	ECO-LFP-12V-100Ah	ECO-LFP-12V-200Ah	ECO-LFP-24V-100Ah
Nominal Voltage [V]	12.8	12.8	12.8	25.6
Nominal Capacity [Ah]	60	100	200	100
Nominal Energy [Wh]	768	1280	2560	2560
Recommended Charging Current [A]	20	30	30	30
Maximum Charging Current [A]	30	50	50	50
Recommended Charging Voltage [V]	14.2	14.2	14.2	28.4
Maximum Charging Voltage [V]	14.6	14.6	14.6	29.2
Recommended Discharge Current [A]	30	50	50	50
Maximum Discharge Current [A]	60	100	100	100
Discharge Cut-off Voltage [V]	11.1±0.2	11.1±0.2	11.1±0.2	22.4±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	
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) [%]			Max. 95%	
Protection Class			IP65	
Design Life [Year]			>10	
Warranty [Year]			5	
ADDITIONAL INFORMATION				
Dimensions (WxDxH) [mm]	135x355x277	188x237x382	340x382x239	340x382x239
Weight [kg]	11	16	29	29
Battery Connector			M8 Connection Terminal	
Serial Connection			No	
Parallel Connection			No	
Casing Material			Metal	

PHYSICAL CHARACTERISTICS



* The manufacturer reserves the right to change the specifications of the products without prior notice.

* The charge, discharge, capacity, and cycle values stated above are valid at 25 °C and non-condensing environment.

* ECO Series LFP lithium batteries are suitable for sole use and cannot be connected in series or parallel.

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