

Datasheet

Mestic LiFePO4 lithium battery smart-series

The Mestic Lithium batteries deliver smart technology, high performance and maximum safety for every camper, caravan or leisure boat. Their weight is up to 50% less compared to traditional AGM or gel batteries and built with premium Grade A prismatic LiFePO4 cells. LiFePO4 cells ensure stability, long lasting power and excellent durability. With smart connectivity and a compact design, you can enjoy reliable energy wherever you travel, without compromise.

Features

- **Built in heating for charging in extreme cold conditions:** the integrated heater ensures safe charging under 0 °C.
- **Customized casing:** ABS housing with shock resistant and fire retardant construction.
- **Detachable cover with removable SAE terminal poles:** for easy installation and service.

Communication

- **Built in display:** always instant insight without a smartphone: charge level, status messages and warnings via LED indicators and on/off button.
- **Full smart connectivity:** WiFi, Bluetooth®, RS485, CAN and CiBus for seamless system integration, real time monitoring and advanced control.
- **Mestic smart app for instant insight:** wireless monitoring of capacity, voltage, temperature and charge status, supported by smart diagnostic tools.

BMS and Protection

The intelligent Smart BMS (Battery Management System) provides complete battery protection for safe and stable performance in every situation. It prevents overcharge, over-discharge, overcurrent and overheating, while advanced cell balancing ensures long term reliability even under heavy loads.



Lithium battery

- LiFePO4 lithium technology for high power and maximum safety
- Integrated BMS and advanced communication interfaces
- Heating function for charging down to minus 20 °C
- Long life cycle (>3500 cycles at 100% DoD)
- IP65 waterproof class
- LED status display
- Durable and safe ABS housing
- Lightweight and maintenance free
- 5 year warranty



Works seamlessly with the Mestic smart app

WiFi Bluetooth





Model	MLBS-100 LN5	MLBS-150 LN5	MLBS-200	MLBS-300
Article No.	1518940	1518950	1518960	1518970
Electrical data				
Nominal voltage	12.8 V			
Open circuit voltage	13.2 V			
Nominal capacity	100 Ah	150 Ah	200 Ah	300 Ah
Capacity tolerance	100%~102%			
Capacity @ 20 A	300 min	450 min	600 min	900 min
Energy	1280 Wh	1920 Wh	2560 Wh	3840 Wh
Resistance	<10 mΩ	<5 mΩ	<5 mΩ	<5 mΩ
Self discharge	<3% per month			
Cycle life	>3500 cycles (at 25 °C, 100% DoD, 80% EoL)			
Charging performance				
Recommended Charge voltage	14.2~14.6 V			
Charge Cut-Off voltage	14.8 V (3.7 V/cell)			
Reconnect voltage	13.52 V (3.38 V/cell)			
Balancing voltage	>3.4 V/cell			
Recommended Charge current	30 A	45 A	60 A	90 A
Maximum Charge current	100 A	150 A	200 A	200 A
Maximum batteries connection	4 in series / 8 in parallel			
Discharging performance				
Discharge Cut-Off voltage	10 V (2.5 for cell)			
Reconnect voltage	11.6 V (2.9v for cell)			
Max.Continuous Discharge current	100 A	200 A	200 A	200 A
Peak Discharge Cut-Off Current	125 A@5 sec	220 A@5 sec		
	140 A@200 msec	300 A@200 msec		
End of Discharge Voltage	11.2 V			
Short circuit protection	500 μs			
Heating part	100 W	100 W	200 W	200 W
Temperature performance				
Charge temperature	-20~50 °C			
Discharge temperature	-20~55 °C			
Storage Temperature	-20~55 °C			
BMS High temperature Cut-Off	90 °C			
Reconnect temperature	80 °C			
Operation Relative Humidity	0-95%			
Mechanical data				
Weight	11.2 kg	17.1 kg	21.0 kg	32.0 kg
Case material	PC/ABS (UL94 V-0)			
IP class	IP65			
Cell type/technology	Prismatic/LiFePO4			
Terminal type	M8/SAE			
Dimensions				
Dimensions (L x W x H)	355 x 175 x 190 mm	355 x 175 x 190 mm	522 x 240 x 219 mm	522 x 240 x 219 mm
DIN standard	H8/LN5	H8/LN5	-	-
Compliance data				
Certifications	CE, IEC61219, UN38.3, RoHS, MSDS, ECE R10			
Shipping classification	UN 3480; Class 9			