

Datasheet

Mestic LiFePO4 lithium battery mc 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.
- **Compact, customized casing:** space saving metal housing with shock resistant and fire retardant construction, to fit the limited space of your vehicle (e.g. under the seat of Fiat Ducato).

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 metal housing with compact design
- Lightweight and maintenance free
- 5 year warranty



Works seamlessly with the Mestic smart app

WiFi Bluetooth

Download on the App Store

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Model	MLBS-200mc	MLBS-300mc
Article No.	1518980	1518990
Electrical data		
Nominal voltage	12.8 V	
Open circuit voltage	13.2 V	
Nominal capacity	200 Ah	314 Ah
Capacity tolerance	100%~102%	
Capacity @ 20 A	600 min	942 min
Energy	2560 Wh	4019 Wh
Resistance	<5 mΩ	<5 mΩ
Self discharge	<3% per month	
Cycle life	>3500 cycles (at 1C, 25 °C, 100% DoD, 80% EoL)	>8000 cycles (at 0.5C, 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	60 A	94.2 A
Maximum Charge current	200 A	150 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	200 A	200 A
Peak Discharge Cut-Off Current	220 A@5 sec 300 A@200 msec	
End of Discharge Voltage	11.2 V	
Short circuit protection	500 μs	
Heating part	100 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	22.7 kg	33.3 kg
Case material	Metal (SPCC)	
IP class	IP65	
Cell type/technology	Prismatic/LiFePO4	
Terminal type	M8	
Dimensions		
Dimensions (L x W x H)	330 x 225 x 190 mm	355 x 300 x 190 mm
DIN standard		
Compliance data		
Certifications	CE, IEC61219, UN38.3, RoHS, MSDS, ECE R10	
Shipping classification	UN 3480; Class 9	