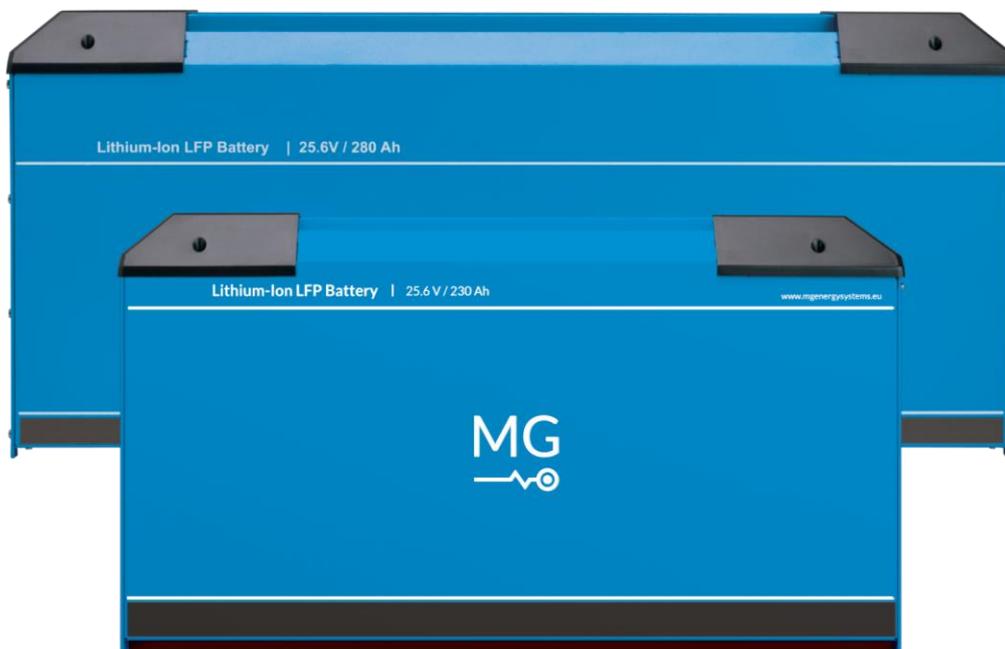


MG LFP 24V Series

- Technical specifications -

MGLFP24x280 (LFP 280Ah)

MGLFP24x230 (LFP 230Ah)



Technical specifications

Technical specifications	MGLFP24x230 25.6 V / 230 Ah	MGLFP24x280 25.6 V / 280 Ah
Technology	Lithium-Ion next generation LiFePo4	
Cell configuration	8S1P	
Nominal voltage	25.6 V	
Nominal capacity	230 Ah	280 Ah
Nominal energy	5.8 kWh	7.2 kWh
Cycle Life DOD 80% ¹	> 3500	
Specific energy ²	143 Wh/kg	136 Wh/kg
Weight	41 kg	53 kg
Discharge ⁶		
Discharge cut-off voltage	21.6 V	
Discharge current	115 A (0.5C)	140 A (0.5C)
Maximum discharge current	230 A (1.0 C)	280 A (1.0 C)
Peak discharge current ³	345 A (1.5 C)	420 A (1.5 C)
Fuses ⁴	300A, fuse inside	
Charge ⁶		
Charge voltage	28.2 V	
Charge current	115 A (0.5C)	140 A (0.5C)
Maximum charge current	230 A (1.0 C)	280 A (1.0 C)
Peak charge current (10 s) ³	345 A (1.5 C)	420 A (1.5 C)
Configuration		
Series configuration	Yes, up to 6. More on request.	Yes, up to 6. More on request.
Parallel configuration	Yes, unlimited	
Redundant mode	Yes, Using multiple Master BMSs	
Environmental		
Operating temperature charge	0 to +45°C	
Operating temperature discharge	-20 to +55°C	
Storage temperature	-20 to +45°C	
Humidity (non-condensing)	≤ 95 %	
Mechanical		
Power connections	M8 stud, Max. 20 Nm	
IP-Protection class	IP40	
Cooling	Air, convection	
Dimensions (l x h x w)	517 x 294 x 193 mm	652 x 294 x 193 mm
Safety		
Battery Management System (BMS)	Integrated slave BMS	
Balancing	Passive	
Compatible BMS master controller	MG Master LV, MG Master HV ⁵	
Communication	CAN-Bus (RJ45 or M12 connection)	
Standards		
EMC: Emission	EN-IEC 61000-6-3:2007/A1:2011/C11:2012	
EMC: Immunity	EN-IEC 61000-6-1:2007	
Low voltage directive	EN 60335-1:2012/AC:2014	
Approvals	IEC-EN62619, IEC-EN62620 (ES-TRIN)	

Footnotes

¹ End-of-Life is 70% of initial capacity at 25 °C. Cycle life is depending on the battery temperature. Higher battery temperature will result in lower number of cycles.

² Including BMS and enclosure.

³ Duration is depending on battery temperature.

⁴ Fuses can be replaced with dummy fuses for high power and high voltage applications. In this case the batteries need to be fuse elsewhere in the circuit.

⁵ For systems >144 V, order the M12, HV version.

⁶ Charge and discharge rates depending on battery temperature and State-Of-Charge.