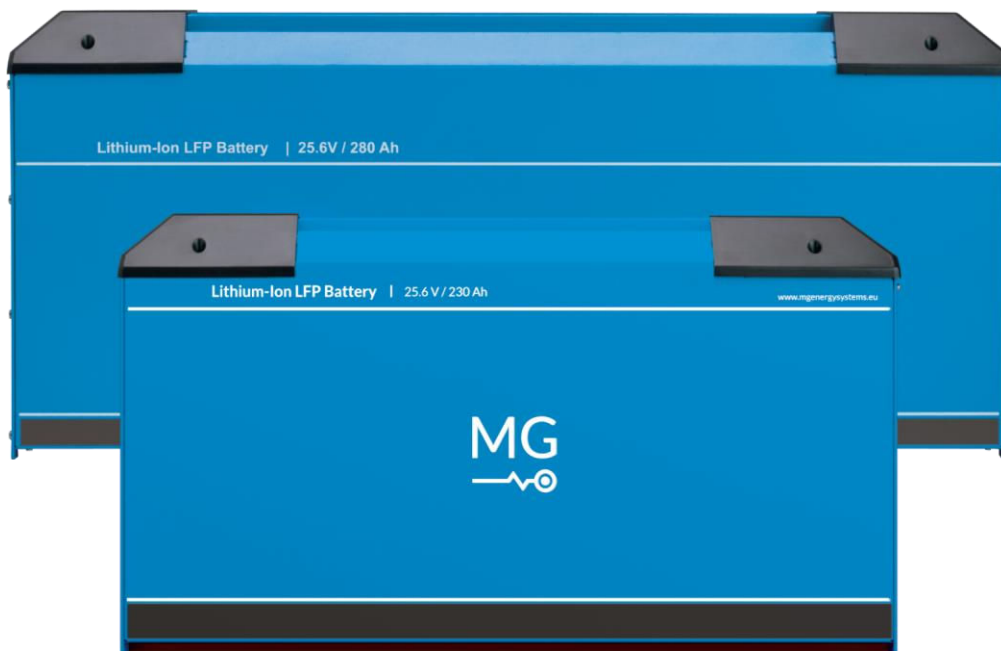


## MG LFP 24V Series

### - 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% <sup>1</sup>	> 3500	
Specific energy <sup>2</sup>	143 Wh/kg	136 Wh/kg
Weight	41 kg	53 kg
<b>Discharge <sup>6</sup></b>		
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 <sup>3</sup>	345 A (1.5 C)	420 A (1.5 C)
Fuses <sup>4</sup>	300A, fuse inside	
<b>Charge <sup>6</sup></b>		
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) <sup>3</sup>	345 A (1.5 C)	420 A (1.5 C)
<b>Configuration</b>		
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	
<b>Environmental</b>		
Operating temperature charge	0 to +45°C	
Operating temperature discharge	-20 to +55°C	
Storage temperature	-20 to +45°C	
Humidity (non-condensing)	≤ 95 %	
<b>Mechanical</b>		
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
<b>Safety</b>		
Battery Management System (BMS)	Integrated slave BMS	
Balancing	Passive	
Compatible BMS master controller	MG Master LV, MG Master HV <sup>5</sup>	
Communication	CAN-Bus ( RJ45 or M12 connection)	
<b>Standards</b>		
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

<sup>1</sup> 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.

<sup>2</sup> Including BMS and enclosure.

<sup>3</sup> Duration is depending on battery temperature.

<sup>4</sup> 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.

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

<sup>6</sup> Charge and discharge rates depending on battery temperature and State-Of-Charge.