

MG LFP 12V Series

- Technical specifications -

MGLFP120210 (LFP 210 Ah)



Technical specifications

Technical specifications	MGLFP120210 12.8 V / 210 Ah
Technology	Lithium-Ion next generation LiFePo4
Cell configuration	4S2P
Nominal voltage	12.8 V
Nominal capacity	210 Ah
Nominal energy	2.7 kWh
Cycle Life DOD 80% ¹	> 3500
Specific energy ²	123 Wh/kg
Weight	22 kg
Discharge ⁵	
Discharge cut-off voltage	12.0 V
Recommended discharge current	< 105 A (< 0.5 C)
Continuous discharge current	210 A (1.0 C)
Maximum discharge current ³	420 A (2.0 C)
Fuses ⁴	300A, fuse inside
Charge ⁵	
Max. charge voltage	14.1 V
Recommended charge current	< 105 A (< 0.5 C)
Continuous charge current	210 A (1.0 C)
Maximum charge current (10 s) ³	315 A (1.5 C)
Configuration	
Series configuration	Not possible
Parallel configuration	96 modules
Environmental	
Operating temperature charge	0 to +45°C
Operating temperature discharge	-20 to +55°C
Recommended operating temperature	20 to +30°C
Recommended storage temperature	10 to +35°C
Humidity (non-condensing)	≤ 95 %
Mechanical	
Power connections	M8 stud, 20 Nm
IP-Protection class	IP40
Cooling	Air, convection
Dimensions (l x h x w)	395 x 276 x 154 mm
Safety	
Battery Management System (BMS)	Integrated slave BMS
Balancing	Passive
Compatible BMS master controller	MG Master LV 12V
Communication	CAN-Bus, RJ45 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

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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 non-fused battery poles for high power applications. In this case each battery string needs to be fused elsewhere in the circuit.

⁵ Charge and discharge rates depending on battery temperature and State-Of-Charge.