

Technical specifications

Technical specifications	MGHE240100 25.2 V / 100 Ah	MGHE240150 25.2 V / 150 Ah	MGHE240200 25.2 V / 200 Ah	MGHE240300 25.2 V / 300 Ah
Technology	Lithium-Ion NMC			
Cell configuration	7S32P	7S48P	7S64P	7S96P
Nominal voltage	25.2 V			
Nominal capacity	100 Ah	150 Ah	200 Ah	300 Ah
Nominal energy	2.5 kWh	3.7 kWh	5.0 kWh	7.5 kWh
Cycle Life @80% DOD (0.3C)	2000	2000	2000	2200 (0.2 C)
Energy / weight ratio <sup>4</sup>	159 Wh/kg	167 Wh/kg	175 Wh/kg	182 Wh/kg
Weight <sup>4</sup>	15.7 kg	22.4 kg	28.6 kg	42.1 kg
<b>Discharge</b>				
Discharge cut-off voltage	21.0 V			
Recommended discharge current	30 A (0.3 C)	45 A (0.3 C)	60 A (0.3 C)	60 A (0.2 C)
Maximum discharge current <sup>1</sup>	150 A (1.5 C)	225 A (1.5 C)	300 A (1.5 C)	300 A (1.0 C)
Internal fuses <sup>2</sup>	150 A	250 A	300 A	
<b>Charge</b>				
Max. charge voltage	29.4 V			
Recommended charge voltage	28.0 V			
Recommended charge current	30 A (0.3 C)	45 A (0.3 C)	60 A (0.3 C)	60 A (0.2 C)
Maximum charge current <sup>1</sup>	100 A (1.0 C)	150 A (1.0 C)	200 A (1.0 C)	200 A (0.7 C)
<b>Configuration</b>				
Series configuration <sup>3</sup>	Yes, up to 2			
Parallel configuration <sup>3</sup>	Yes, up to 96			
<b>Temperature</b>				
Operating temp. charge	0 to +45°C			
Operating temp. discharge	-20 to +55°C			
Storage temperature	1 month: -20 to +60°C; 3 month: -20 to +45°C; 1 year: -20 to +20°C;			
<b>Mechanical</b>				
Power connections	M8 stud, max. 15 Nm			
Protection class	IP20			
Cooling	Air, forced (2x fan inside)			Air, convection (no fans)
Dimensions	362x193x214 mm	362x193x284 mm	362x193x355 mm	366x193x497 mm
<b>Safety</b>				
Battery Management System	Integrated slave BMS			
Balancing	Passive			
Compatible BMS master controller	MG Master LV, HV			
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-IEC 60335-1:2012/A11:2014			

<sup>1</sup>) Duration is depending on battery temperature

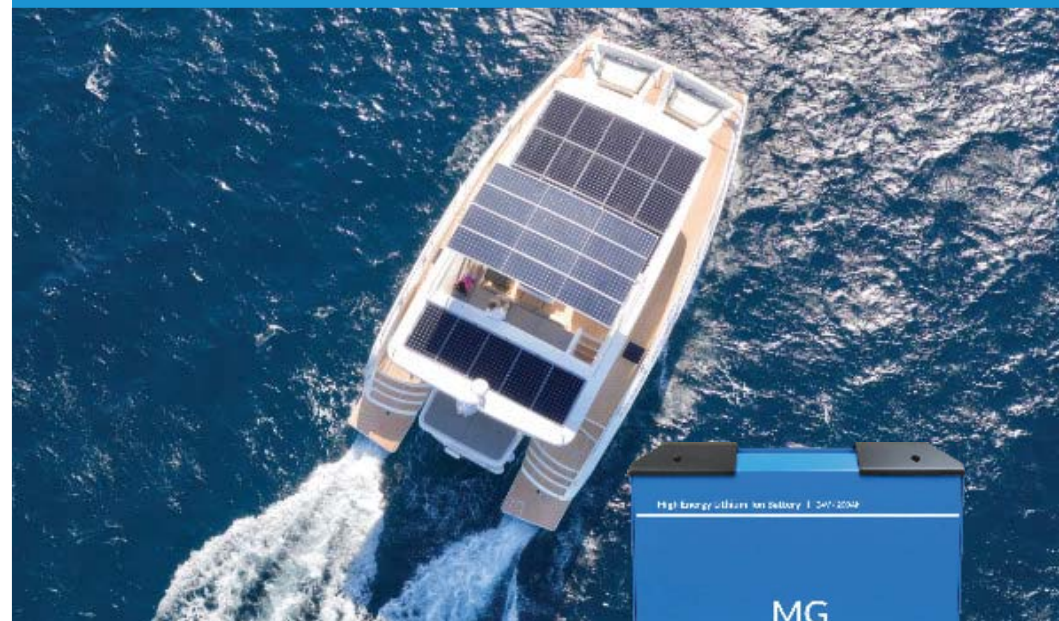
<sup>2</sup>) Fuses can be replaced with dummy fuses. Batteries need to be fused elsewhere in the circuit.

<sup>3</sup>) More series and parallel on request

<sup>4</sup>) Including BMS and enclosure

# HE Series

## High Energy Lithium-Ion batteries



**Marine**  
Electric propulsion  
Aux. battery bank

**Industrial**  
Peak shaving  
UPS systems

**Off-grid/Solar**  
Self-consumption  
Off-grid solutions

**Automotive**  
Mobile power sources  
Electric mobility