

Elite Power Solutions (UK) - Lithium Ion Battery

Key parameters:	
Cell Voltage	Nominal voltage: 3.20V
	Max cell voltage: 4.00V (recommend not to exceed 3.80V)
	Min cell voltage: 2.50V (recommend not to drop below 2.80V)
Operating temperature ranges	-20C to 65C for discharging
	0C to 65C for charging
Current range	Up to 3C continuous current for charging and discharging
	Up to 10C impulse discharging current
	Recommended charging and discharging current: 0.5C
Cycle time	2000 cycles at 80%DOD at room temperature
Self discharge	max 3% per month

Part Number	Cell Capacity (Ah)	Single Cell		4-cell Pack	
		Dimensions (mm)	Weight (kg)	Dimensions (mm)	Weight (kg)
GBS-LFMP20AH	20	72 x 42.5 x 155	0.75	180 x 79 x 166	3.00
GBS-LFMP40AH	40	126 x 46 x 189	1.40	126 x 198 x 189	6.60
GBS-LFMP60AH	60	126 x 65 x 189	2.50	126 x 274 x 189	9.20
GBS-LFMP60AHB	60	126 x 65 x 191	2.50	126 x 278 x 191	9.20
GBS-LFMP100AHX	100	140 x 62 x 241	3.20	262 x 140 x 241	12.9
GBS-LFMP200AH	200	142 x 57 x 489	5.50	489 x 242 x 142	24.9
GBS-LFMP200AHX	200	290 x 66 x 238	6.50	290 x 289 x 238	28.2
GBS-LFMP300AHX	300	365 x 63 x 312	10.6	365 x 268 x 312	46.0
GBS-LFMP400AHX	400	365 x 73 x 312	13.2	365 x 317 x 312	56.4

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With Phosphate based chemistry and patented safety valve design, our Lithium Ion battery cells demonstrate the highest safety performance in the industry. The safety valves can pop open under abuse conditions, quickly release internal cell pressure, and thus prevent cells from catching fire. Tests have been conducted to confirm cells do not catch fire or explode in various abusive conditions, such as nail penetration, short circuiting, over-charging, over-discharging, over-temperature, crushing, dropping, etc. Our Lithium Ion batteries are certified with UL1642 and UL1973 standards.

Cell capacities range from 20Ah to 400Ah. Using large format cells simplifies pack formation and system integration. Each bus bar connection to a cell terminal is secured using 4 screws, providing a much more robust connection and reduced contact resistance. Bus bars are made of silver plated copper bars to achieve maximum conductivity and high resistance to corrosion. Cell terminals are designed to accommodate BMS installation. Cell covers provide additional protection for BMS circuits, bus bars and terminals.



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