

FES GEN4 BATTERY PACKS

DESIGNED AND PRODUCED BY LZ DESIGN, APPROVED BY EASA

Technical specifications:

Type of cells	Cylindrical 18650 (INR-18650-P28A)			
Electrochemical system	NMC (LiNiMnCoO ₂)			
Rated cell capacity / rated current	2,8 Ah / 35A			
Nominal cell voltage	3,6 V			
				
Pack designation	FES GEN4 14S 56Ah "S"	FES GEN4 14S 84Ah "L"	FES GEN4 16S 56Ah "M"	FES GEN4 16S 84Ah "XL"
Nm. of blocks in serial	14		16	
Nm. of cells in parallel	20	30	20	30
Number of cells in single pack (pair)	280 (560)	420 (840)	320 (640)	480 (960)
Pack capacity	56 Ah	84 Ah	56 Ah	84 Ah
Energy storage capacity of single pack (of pair)	2,8 (5,6) kWh	4,2 (8,4) kWh	3,2 (6,4) kWh	4,8 (9,6) kWh
Weight of single battery pack (pair)	16,7 (34,4) kg	25 (50) kg	19 (38) kg	28,6 (57,2) kg
Length of battery pack	249 mm	364 mm	282 mm	413 mm
Width of battery pack	174 mm			
Height of battery pack housing	261 mm			
Nominal pack voltage	50,4 V		57,6 V	
Max pack voltage (pair)	58,2 V (116V)		66,5 V (133V)	
Internal resistance	10 mOhm	8 mOhm	11 mOhm	9 mOhm
Maximum current	250A			
Internal BMS type	FES BMS 2Q			
Communication protocols	CAN, RS485, PWM			
Max balancing current	1A			
Standard 600W small power charger (220V AC only)	FES KOP602		FES KOP602E	
Optional 600W small power charger (110-220V AC)	FES KOP605		FES KOP605E	
Optional 1200W middle power charger (220V AC only)	FES KOP1001		FES KOP1001E	
Optional 2000W high power charger (110-220V AC)	FES KOP2300		/	
Optional 360W travel charger (110-220V AC)	FES Travel 14S		FES Travel 16S	