

FPT ePowertrain solutions

Innovation and sustainability have always been fundamental characteristics of FPT Industrial. In order to remain at the forefront of technological advancements and effectively respond to market needs, the Brand created ePowertrain department in 2018 and opened a dedicated ePowertrain Plant in Turin (Italy) in October 2022. With main hubs based in the R&D centers in Arbon, Switzerland, Coventry, UK and Turin, Italy, the ePowertrain department is focused on developing the powertrains of tomorrow, today. Being a global leader means setting new targets that grow more challenging every day. To reach them, we have drawn on our expertise along with the best innovative start-ups worldwide, through partnerships, acquisitions and joint ventures. Now, we can proudly display the results, showcasing our full range of ePropulsions and Energy Storage and Management solutions.

Energy Storage Solutions

The new eBS 37 EVO battery pack presents some substantial innovations: the eBM 5 Battery Management System - entirely developed and produced by FPT Industrial - and a new internal design which allows the battery to meet the highest safety standard ECE R100.3. Thanks to the FPT Industrial in-house Battery Management System eBM 5, the eBS 37 EVO ensures an increased battery life according to mission requirements.

Specifications

Model:	eBS 37 EVO
Application:	LCV - Minibus
Type:	HV Battery Pack
Nominal capacity (Ah):	104
Nominal energy (kWh):	37
Usable energy (kWh):	35
Nominal voltage (V):	355 (666 in case of multi pack)
Voltage range (V):	259 - 403
Energy density (Wh/kg):	>140
C-rate (continuous):	1C (charge) 2C (discharge)
Weight (kg):	260
Dimensions (mm):	925 x 854 x 310
Multipack solution:	up to 4 packs in parallel up to 2 packs in series
Cathode technology:	NMC 811
Cell Technology:	Li-ion
Cell configuration:	96s2p
Cooling system:	Water cooled
Protection:	IP6K9K / IP67
Vibration profile:	ISO 12405-2
Regulation Compliance:	ECE R100.3 ECE R10.6
Life cycle:	>2.500
BMS:	FPT eBM 5

ENERGY STORAGE - BATTERY PACK



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Usable energy (kWh):	35
Nominal voltage (V):	355 (666 in case of multi pack)
Voltage range (V):	259 - 403
Energy density (Wh/lb):	>63.5
C-rate (continuous):	1C (charge) 2C (discharge)
Weight (lb):	573
Dimensions (inch):	36 x 34 x 12
Multipack solution:	up to 4 packs in parallel up to 2 packs in series
Cathode technology:	NMC 811
Cell Technology:	Li-ion
Cell configuration:	96s2p
Cooling system:	Water cooled
Protection:	IP6K9K / IP67
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