



SMART MODULAR BATTERY PACKS FOR LIGHT ELECTRIC VEHICLES



TOP
Premium Brand Quality Cells
Automotive Reliability & Safety
Customized Performance



Series production in Barcelona with ISO9001 Quality certified by TÜV Rheinland.

MILLOR[®] develops and manufactures World's best of its class batteries for many of the most demanding projects, from premium ebikes up to euses and Formula E performing racers.

After a long and exhaustive development, we present flexiFIVEL[®] smart modular battery technology. The perfect choice for OEMs designing light electric vehicles with high quality and safety requirements with adjusted time to market.

flexiFIVEL[®]; Five L's from Light, Long range, Long life, Low voltage batteries.

For the next generation electric scooters, motorbikes, microcars, ATVs, minivans, industrial, GO-Karts, boats and other light electric vehicles. Better batteries for a better future!




SMART MODULAR BATTERY PACKS FOR LIGHT ELECTRIC VEHICLES

FEATURES

- Fully plug and play parallelizable up to 16 units adding both energy and power
- Flexible CAN BUS open communication with configurable limits and operation
- Fully customizable (colors, branding, handles, etc.)
- Fast and easy mechanical direct integration
- Removable and portable or fixed options
- MILLOR® Smart Battery Management System
- Integrated smart display showing running mode and State of Charge
- Anodized aluminium automotive grade safety casing
- Overtemperature protection
- Undertemperature protection
- Overcurrent recursive electronic protection
- Short-circuit protection
- Overvoltage protection
- Undervoltage protection
- Antispark precharge active protection

QUALITY & RELIABILITY

- UN 38.3 Tested and Certified
(Thermal shock, overtemperature, overcharge, overdischarge, vibration, mechanical shock, altitude underpressure, short circuit, impact, crush)
- UN/ECE-R100 rev2. Compliant
- Internal and external fire Tested
- Series production with ISO9001 quality certified by TÜV Rheinland
- Made in Barcelona with 100% end of line tested units
- Premium brand quality cells
- 2 Years OEM warranty
- Ensured 2nd life after EOL
(designed and manufactured for circular economy)

 Ask for the CAD file, more info and samples!

ELECTRICAL SPECIFICATIONS

Number of flexiFIVEL® units connected in parallel	1	2	3	...10	Uts.
Nominal voltage	51				V
Min/Max voltage	38/58				V
Capacity	35	70	105	350	Ah
Energy	1,8	3,6	5,4	18	kWh
Maximum continuous current	40	80	120	400	A
Peak current (<5s)	100	200	300	1000	A
Maximum continuous power	2	4	6	20	kW
Peak power (<5s)	5	10	15	50	kW
Standard charging (@80%SOC)	<8				h
Fast charging (@80% SOC)	<2				h

MECHANICAL SPECIFICATIONS

- Length	250	mm
- Height	363	mm
- Width	98	mm
Mass	9,5	kg
Ingress Protection	IP64/65	-

