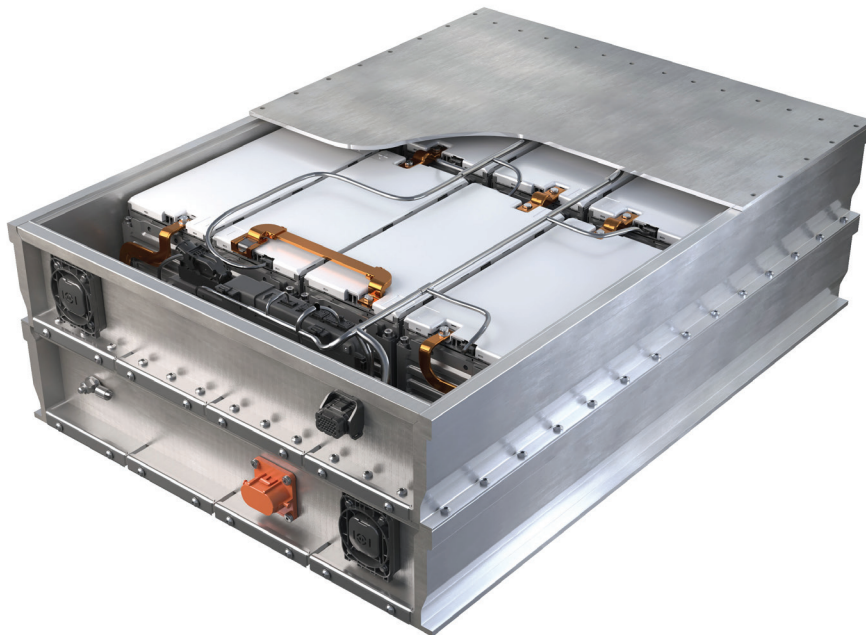


CV Standard Battery System

Scalable Battery System Designed for Commercial Vehicles



Features:

- Modular system with 35-350 kW/h storage
- Designed specifically for commercial vans, trucks, buses & marine applications
- Configurable for 400 V and 800 V
- Available thermal management system for optimum performance
- Advanced electronics with remote monitoring available
- Liquid cooling with connectors outside the pack
- Desiccant cartridges to reduce condensation
- Integrated thermal runaway detection in each system
- State-of-the-art pressure equalization for added safety

The Webasto CV standard battery system is designed specifically for the commercial vehicle / vessel market. This high quality system boasts robust packaging, modular design and an efficient cooling interface. Coupled with Samsung SDI state-of-the-art cell technology.

Webasto CV standard battery was designed to be the perfect solution for many commercial vehicle and marine applications: light-medium duty, bus, heavy duty truck, off-highway machines, luxury sport & commercial vessels.

System requirements and the environment

- Optimized for vehicle classes M1, M2, M3, N1, N2 & N3 (EC Directive 2007/46)
- Developed for EU28 as well as Switzerland, Turkey and Norway
- Designed for an ambient temperature of -30 °C to 60 °C, 3,500 meters above sea level and 0 – 100% humidity

Norms and standards

- **Homologation:** ECE R100, ECE R10, UN GTR No. 20
- **Transport:** UN T38.3 (Transport of Dangerous Goods)
- **Safety:** ISO 6469, ISO 12405, ISO 26262 (ASIL C)
- **Environment:** ISO 16750, ISO 19453, ISO 20653 (IP67 / IP6K9K)
- **Vehicle communication:** ISO 15031, SAE J1939, SAE J1979
- **Company standards:** LV 123, LV 124
- **EMC:** ISO 11451, ISO 11452

Technical Specifications

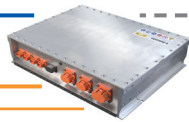
	Battery pack
Dimensions (L x W x H)	960 x 686 x 302 mm
Weight (kg)	295** per pack
Installed Energy	35 kWh
Voltage range	280 – 400 V (~350 V nominal)
Energy density	~203 Wh/l, >118 Wh/kg
Continuous use (CH / DCH) (@25 °C, SoC dependent)	50 / 56 kW
Maximum performance (CH / DCH) (30s, @25 °C, SoC dependent)	116 / 112 kW
Lifetime (@80% DoD, 25°C, 1C/1C)	>3.000 cycles*
Calendric lifetime (Years)	8 years
Volume flow per battery pack	10 l/min.
Pressure loss per battery pack	<50 mbar
Cell type	prismatic NMC

* SoC, voltage, temperature, & DoD dependent ** Dry weight



CV Standard
Battery

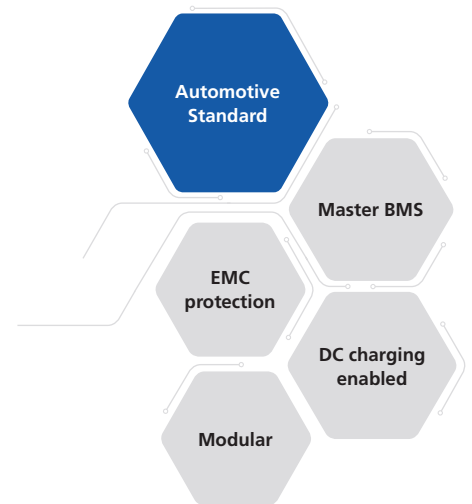
Powertrain
& Consumer



Vehicle Interface Box

- Central analysis and evaluation of individual packs
- Summary of overall system limits

Expandable
up to 10 Batteries*
(350 kW/h)



System specifications	400 V Max. 5 battery packs	800 V Max. 10 battery packs
Energy (entire system) (kWh)	n*35	
Pack topology in 400 / 800 V system	1snp	2snp
Continuous use* (CH/DCH) (kW)	up to 150	up to 300
Maximum use 30 sec* (CH/DCH) (kW)	up to 230	up to 460

* @25 °C & SoC dependant. ** power figures with VIB & min. 3 parallel battery packs.



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