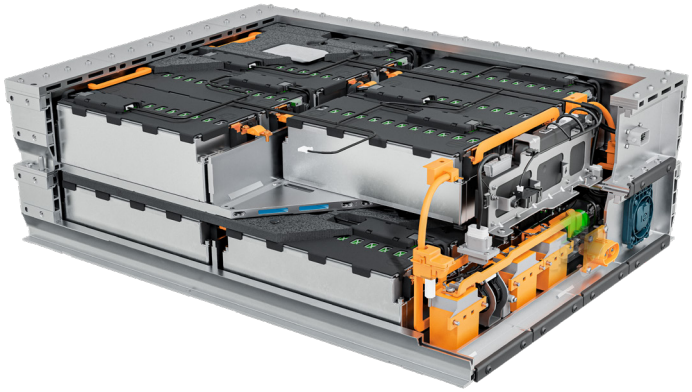
Webasto
Feel the Drive

Standard Battery Pro 40

A perfect fit for commercial vehicles and mobile machines



The Webasto Standard Battery Pro 40 is designed according to the high requirements of the commercial vehicle market. The modular and scalable concept is suitable as a traction battery for a wide range of vehicle types - from light commercial vehicles to various mobile machines.

It offers not only a robust housing, but also high quality and efficient thermo management. The depth of added value makes Webasto a reliable system partner that stands by the customer's side from development through production to integration and commissioning.

All advantages at a glance:

- Scalable system with up to 18 Standard Battery Pro 40, a voltage of 400 or 800 V and with up to 630 kWh
- Robust housing enables use in rough terrain
- Intensively tested and certified to high safety and quality standards
- Vertical and horizontal mounting positions allow flexible integration
- Standardized product can help reduce total cost of ownership

Standards & norms

- **Homologation:** ECE R100, ECE R10
- **CE-mark:** CE certified for mobile machines*
- **Safety:** ISO 6469, ISO 19014, ISO 26262 (ASIL C)
- **Environment:** ISO 20653 (IP67/ IP6K9K)
- **Vehicle communication:** CAN-Bus conform to ISO 11898
- **Company standards:** LV 123, LV 124
- **EMC:** ISO 11452, ISO 7637, CISPR 25
- **Transport:** UN T38.3

Additional standards & norms**

UN GTR No. 20, ISO 16750, ISO 12405, ISO 19453

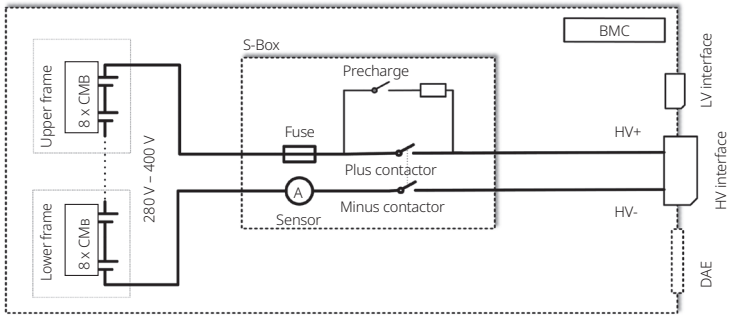
Safety features

- Physical separation between high voltage and cooling connectors
- Desiccant cartridges to avoid condensation over lifetime
- Integrated thermal runaway detection in each system
- Advanced pressure equalization system
- Insulation measurement, high voltage interlock and contactor monitoring included in every battery pack
- Temperature, voltage and current of different sub-components are monitored

* CE certified for various vehicle types (listing upon request)
** Tests & requirements partially fulfilled

Truck | Light vehicles | Bus | Special vehicle | Recreational vehicle | Off-Highway | Agricultural | Airport | Material handling

Battery pack circuit



Technical specifications

	Battery pack
Dimensions (L x W x H)	960 x 687 x 302 mm
Dry weight	297 kg
Installed energy	~ 40 kWh
Nominal capacity	116 Ah
Nominal operating voltage range	333 – 407 V
Energy density	~ 232 Wh / l, > 135 Wh / kg
Continuous power (CH / DCH) (@25 °C, SoC dependent)	45 / 55kW
Peak power (CH / DCH) (10 s, @25 °C, SoC dependent)	60 / 112 kW
Lifetime (DoD, temperature and C-rate dependent)	Up to 3,000 cycles
Volume flow	10 l/min
Pressure loss	< 50 mbar
Cell type	Prismatic NMC
Operating temperature	-30 °C to +55 °C 3,500 meters above sea level 0 - 100 % humidity

Our solution for commercial vehicles comprises Standard Battery Pro 40 and Vehicle Interface Box or Vehicle Interface Gateway

Vehicle with two Standard Battery Pro 40

Expandable up to 10 Standard Battery Pro 40

Vehicle Interface Box (VIB)

Vehicle with two Standard Battery Pro 40

Expandable up to 18 Standard Battery Pro 40

Vehicle Interface Gateway (VIG)

System specifications	Vehicle Interface Box (VIB)		Vehicle Interface Gateway (VIG)	
	400 V system Max. 5 batteries	800 V system Max. 10 batteries	400 V system Max. 9 batteries	800 V system Max. 18 batteries
Topology	1snp (n=1-5)	2snp (n=1-5)	1snp (n=1-9)	2snp (n=1-9)
Installed energy	Up to 200 kW	Up to 400 kW	Up to 360 kW	Up to 720 kW

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