Webasto
Feel the Drive

Vehicle Interface Gateway

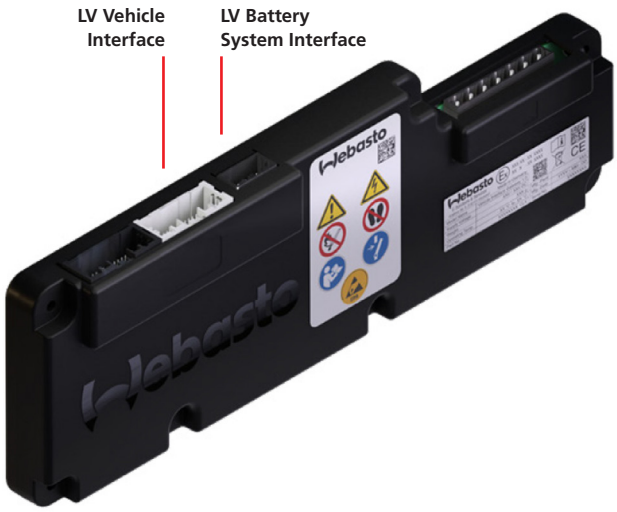
Small Gateway Enabling the Most Flexible and Powerful CV Standard Battery Multi-pack Solution

Features:

- Enables maximum possible battery system power
- Offers a high level of battery system scalability
- Small and flexible system design
- Single communication interface to the vehicle
- Designed and developed to the highest safety standards

The Vehicle Interface Gateway (VIG) enables battery system scalability by allowing up to 18 packs to be combined upon request. It acts as an efficient gateway between multiple battery packs and the vehicle.

The VIG works as a master BMS which gives customers greater flexibility when combining the CV standard battery packs to a multi-pack system. This creates a comprehensive modular battery system that is tailored to 400 and 800 V solutions.



Technical Specifications

	VIG
Dimensions (L x W x H)	1.3 x 4.1 x 12.4 in *(33 x 105 x 314 mm)*
Weight	~0,45 kg
LV supply voltages	12 and 24 V
HV compatibility	400 & 800 V
Scalable energy with CV standard batteries	35 – 630 kW (max. 18 packs)
Scalable power	up to 1,109 kW
Continuous current DCH	1,215 A
Continuous current CH	1,102 A
Peak current DCH (30 sec.)	1,400 A
Peak current CH (30 sec.)	1,400 A
Operational temperature	-40 to +85°C

Technical features

- Specially designed for the Webasto CV standard battery system
- Master BMS function (one central control unit for vehicle implementation)
- Enables high power outputs with maximum number of battery packs thanks to no HV limitations
- AC and DC charging possible with additional vehicle-side HV architecture
- Enables battery system scalability by allowing up to 18 packs to be combined upon request
- Intelligent switching concept and central battery pack balancing
- Central coordination and monitoring of isolation resistance on 400 V system
- High voltage interlock monitoring on vehicle level possible
- Central CAN communication interface between vehicle and battery system
- Supports 12 and 24 V power supplies in one solution

Norms and standards

- **Homologation:** ECE R10
- **Safety:** ISO 26262 (ASIL C)
- **Vehicle Communication:** CAN and SAE J1939 Bus conform to ISO 11898
- **Company Standards:** LV 124
- **EMC:** UN ECE R10

Additional norms & standards:

- ISO 16750, ISO 19453

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