

Vehicle Interface Gateway

Small gateway enabling the most flexible and powerful
CV standard battery multi-pack solution



The Vehicle Interface Gateway (VIG) enables battery system scalability by allowing up to 18 Webasto CV standard battery packs to be combined. It acts as an efficient communication 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.

Standard & Norms:

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

Your benefits

- Enables outstanding 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

Additional Standards & Norms:*

ISO 16750, ISO 19453

* Tests & Requirements partially fulfilled. For details and options please contact Webasto SE.



Car



Truck



Light Vehicles



Bus



Rail



Off-Highway*



Defense



Special Vehicles

Technical specifications

	400/800 V
Product dimensions (L x W x H) (mm)	33 x 106 x 314
Weight (kg)	~0.45
LV supply voltages (V)	12 and 24
HV compability (V)	400 & 800 systems
Scalable energy with CV standard batteries (kWh)	35 – 630 (max. 18 Packs)
Scalable power (kW)	up to 1,109
Continuous current DCH (A)	1,215
Continuous current CH (A)	1,102
Peak current DCH (30 sec.) (A)	1,400
Peak current CH (30 sec.) (A)	1,400
Operational temperature (°C)	-40 to +85



Technical specifications

- 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
- Up to 18 battery packs possible (Individual configuration to be aligned with Webasto)
- Intelligent switching concept and central battery pack balancing
- Installation and housing specifications according to quick manual requirements
- Central coordination and monitoring of isolation measurement 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