

# 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 Systems 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 System 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

## Additional standards and norms\*

ISO 16750, ISO 19453

## All advantages at a glance:

- Powerful master BMS enables scalability of the battery system
- Configuration of up to 18 CV Standard Battery Systems possible
- Small and flexible system design
- Central CAN communication interface between battery and vehicle
- Designed to the highest safety standards

## Technical specifications

- Enables high power outputs with maximum number of battery packs thanks to no HV limitations
- Intelligent switching concept and central battery pack balancing
- Central coordination and monitoring of isolation measurement on 400 V system
- High voltage interlock monitoring on vehicle level possible
- AC and DC charging possible with additional vehicle-side HV architecture

\*Tests & Requirements partially fulfilled.  
CE-mark VIG also available as a CE-certified product.



Truck



Light vehicle



Bus



Special vehicle

## Technical specifications

|                                | 400/800 V                                  |
|--------------------------------|--|
| Product dimensions (L x W x H) | 314 x 33 x 106 mm                          |
| Weight                         | ~0.45 kg                                   |
| LV supply voltages             | 12 and 24 V                                |
| HV compability                 | 400 & 800 V                                |
| Scalable energy                | 35 – 630 kWh<br>(max. 18 battery systems ) |
| 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                              |

