

Vehicle Interface Gateway Plus

Robust gateway enabling the most flexible and powerful CV Standard Battery multi-pack solution for mobile machines



The Vehicle Interface Gateway Plus (VIG Plus) enables communication between the vehicle and up to 18 Webasto CV Standard Battery Systems at a system voltage of 400 or 800 V. This creates a powerful multipack system with an energy content of up to 630 kWh.

As an intelligent master BMS, the VIG Plus serves as an efficient communication interface between the battery system and the vehicle. Thanks to its robust housing, it is particularly suitable for off-road use and is certified for this purpose.

Standards & norms

- **CE-mark:** CE certified for mobile machines*
- **Safety:** ISO 26262 (ASIL C)
- **Vehicle communication:** CAN and SAE J1939 Bus conform to ISO 11898
- **IP protection class:** IP 67 / EN 60529
- **Standards:** LV 124
- **EMC:** ISO 13766, ISO 14982, EN 12895, EN 61000-6

Additional standards & norms**

ISO 16750, ISO 19453

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

All advantages at a glance:

- High-performance master BMS enables the scalability of the battery system
- Configuration of up to 18 CV Standard Battery Systems possible
- Robust housing for use in mobile machines
- Central CAN communication interface between vehicle and battery system
- Designed and developed to the highest safety standards

Technical specifications

- Enables high power outputs with maximum number of battery packs
- 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



Agricultural



Construction machines



Airport



Material handling



Technical specifications

	VIG Plus
Dimension (L x W x H) with connector	420 x 200 x 120 mm
Dimension (L x W x H) without connector	397 x 200 x 120 mm
Weight	~6.0 kg
Housing material	Aluminum
Housing surface	Powder coating RAL 7035
LV supply voltages	12 / 24 V
HV compability	400 / 800 V
Scalable energy with CV Standard Batteries	35 – 630 kWh (max. 18 packs)
Scalable power	Up to 1,120 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