



V2X Bi-directional Charging Solution

V2H (Vehicle-to-Home) / V2H11A-11, V2H11A-22

Features

- Bi-directional power conversion with max. 11/22kW output
- Compatible with Home Energy Management System (HEMS)
- Mobile app and cloud-based service backend for remote control and diagnosis
- Self-diagnosis and protection ensure home safety
- Low acoustic noise with fan speed/power control
- IP55 and IK10 rating for protection in indoor/outdoor environments
- 95% power conversion efficiency saves energy



House



Apartment



Condominium



V2H Bi-Directional Charger

Delta's Vehicle-to-Home (V2H) Chargers provides bi-directional power conversion with 95% efficiency for charging/discharging electric vehicles (EVs). With compatible Home EMS, our V2H Chargers can unlock the full potential of energy routing and management. With a self-diagnosis/protection mechanism, low acoustic noise, and IP55/IK10 rating, the V2H Chargers promise high safety and adaptability for home environments under both grid-tied and off-grid modes.



Specifications

Model Name	V2H11A-11	V2H11A-22
Charge		
Number of Phase	3P+N+PE	3P+N+PE
Rated Power	11kW	22kW
AC Input	400 Vac, max. 18.6A, 50/60 Hz	400 Vac, max. 37.5 A, 50/60 Hz
DC Output	200 to 500 Vdc, max. 25A	200 to 500 Vdc, max. 50 A
Discharge		
Rated Power	10 - 11 kW	10 - 22 kW
DC Input	200 to 500 Vdc, max. 25A	200 to 500Vdc, max. 56A
AC Output	400 Vac, max. 16A, 50/60 Hz @ 10kW	400 Vac, max. 16A, 50/60 Hz @ 10kW
Protection		
Upstream	In accordance with local regulations	
Electrical Protection	Over current, Under voltage, Over voltage, Under frequency, Over frequency, Over temperature, Ground fault, Anti-islanding	
Cold-Load Pickup	Randomized delay before charge resume after power failure	
User Interface & Control		
Status Indicators	Charge, Discharge, Alarm/Fault	
Buttons	Charge start, Discharge start, Stop, Emergency stop	
User Authentication	ISO / IEC 14443 A / B Mifare RFID reader	
Communication		
Network Interface	Ethernet	
Charging Protocol	CHAdeMO	
Environmental		
Operating Temperature	-30 °C to +50 °C	
Humidity	< 95% relative humidity, non-condensing	
Altitude	Up to 3,000 m (de-rating >2,000 m)	
Mechanical		
Charging Connector	CHAdeMO with 4m plug	
Protection	IP55, IK10	
Cooling	Forced air cooling	
Dimension (W x H x D)	500 x 817 x 200 mm	500 x 817 x 310 mm
Net Weight	45 kg	65 kg
Regulation		
Certificate / Compliance	CE, EVPS-006: 2018	
Grid Connection	VDE-AR-N 4105:2018	

* Depends on model configuration, specifications are subject to change without notice.

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