THE MOBILITY HOUSE

ChargeLine BiDi

Data Sheet

General

Charger type	IEC 61851-1 DC mode 4
EV plug connection	IEC 62196-3 FF (CCS 2)
Dimensions (H x W x D, excl. cable)	575 mm x 352 mm x 135 mm
Weight (excl. cable)	Approx. 27 kg
Standby consumption	~ 20 W
Charging cable length	6 m
User interface	Multicolor LED stripe, Web Interface (User & Installer)
Intended use	Residential, commercial, and industrial applications

Charging & Discharging

	Input	**Output**
Charging - Maximum current	16 A (max, 3-phase) 32 A (max, 1-phase)	35.3 A (max, 3-phase) 24 A (max, 1-phase)
Charging - Rated voltage	380-415 V AC (3-phase) 220-240 V AC (1-phase)	150 – 1000 V DC
Charging - Rated power	11 kW (3-phase) / 7.4 kW (1-phase)	
Discharging - Maximum current		16 A (max, 3-phase) 32 A (max, 1-phase)
Discharging - Rated voltage	200 – 1000 V DC	380-415 V AC (3-phase) 230 V AC (1-phase)
Discharging - Rated power	11 kVA (3-phase) / 7.4 kVA (1-phase)	
Rated frequency	50/60 Hz	

Safety and protection

Current leakage	6 mA DC earth leakage protection on residual current (IEC 62955)
Over-/ undervoltage and overcurrent protection	IEC 61851-1/ -21/ -22/ -23
Cybersecurity	RED EN18031 certified
Operating temperature	-30 °C to +50 °C
Ambient storage temperature	-40 °C to +85 °C
Relative humidity range	5% to 100%
Maximum operating altitude	3000 m
IP / IK / NEMA rating	IP65 / IK08 / NEMA 4

Authorization

Authorization methods	RFID (Mifare classic & Mifare DESfire)
ISO 15118-20 V2X	Communication fully supported (TLS1.3)

Energy meter

Energy meter class	Class B
Certification	MID certified

Connectivity

WLAN	2.4 GHz/ 5 GHz with WPA2
Fixed network and communication	RJ45 Ethernet (LAN) RS485 Discrete input (black start & DSO interface)
Cellular	Mobile 4G (eSIM), LTE Cat-M1, NB-IoT, GPRS

Communication Protocols

Vehicle communication	ISO 15118-20, ISO 15118-2, DIN 70121
Back-end communication	OCPP 2.1 (up to Security Profile 3 – mTLS/ TLS1.2)
Firmware update	Locally via web interface Over-the-air via OCPP
Home Energy Management integration (HEMS)	Modbus TCP/IP

Charging Strategies

Scheduled charging	Via OCPP
Dynamic load balancing	Local control via HEMS
Solar charging	Local control via HEMS
Power limitation	Local control via HEMS or DSO interface

Installation

Installation location	Indoor and outdoor usage
Mains connection	Permanent mains connection only
Installation type	Stationary equipment; Wall surface mounted