

M2



Bidirectional MID charging

amina M2

amina M2 is designed to streamline operations, reduce costs, and prepare your business for what's next. Now with hardware ready bidirectional charging and Plug & Charge via ISO 15118-20.

With MID-certified metering, cabled network support, and local load balancing, it offers enhanced reliability and efficient energy management.

Bidirectional charging new

Compliance to the ISO 15118-20 standard. V2G out of the box: the car can power your home, balance the grid, or hold its charge for when it's worth more.

Plug & Charge new

ISO 15118-20 authentication. The charger identifies the vehicle and starts the session. No app, no RFID.

MID-certified meter: Small details, big impact

Ensures precise energy tracking for compliant billing and reimbursements. Unlock new revenue streams, build trust, and grow your business.

No interruptions with cabled network

Beyond its LTE Cat 1 Bis modem and dual-band WiFi, a dedicated Ethernet port guarantees stable, seamless OCPP communication.

Balancing power with smart meter monitoring

Optimises charging by monitoring P1 smart meters, preventing fuse overloads and maximising solar power usage.

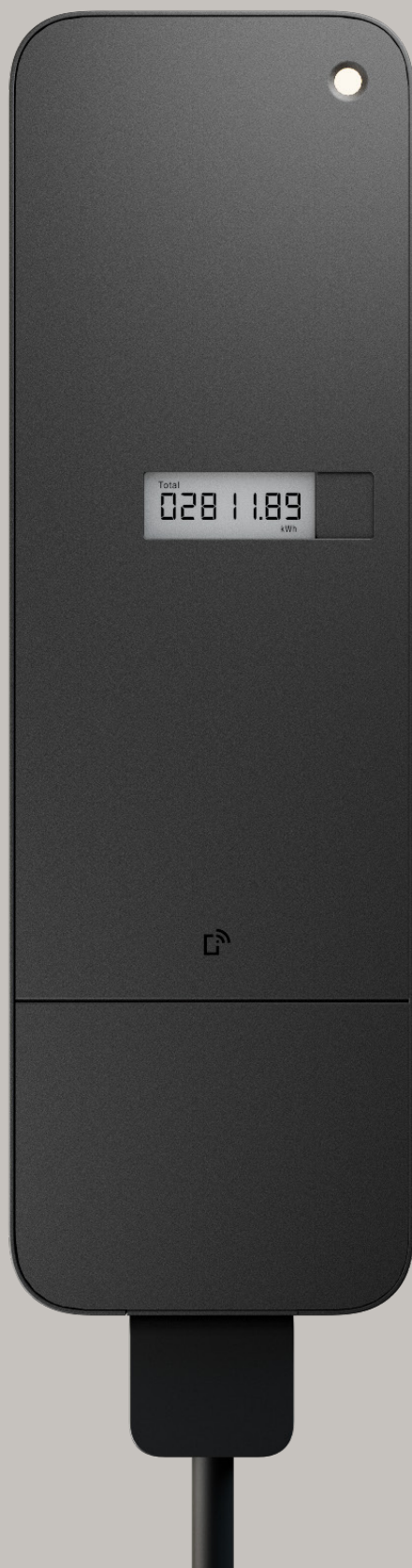
Pre-configured for instant operation

Custom provisioned chargers ensure quick installation and automated setup, reducing installation costs and speeding up deployment.

Make amina M2 truly yours

Strengthen your brand's presence by customising every detail of amina M2, from front cover to packaging.

Technical specifications



General	Dimensions: 360mm x 112mm x 89mm Operating temperature: -30°C to +40°C
Weight	1,6 kg w/o cable 3,1 kg w/ 6m 3-phase 20A cable 4,1 kg w/ 6m 3-phase 32A cable
Power grid and voltages	TN, IT and TT 230V/400V AC 3-phase 230V AC 1-phase
Charging Cable	Fixed clip-in cable included (replaceable) Type 2 plug (EN 62196) 6m 3-phase 20A/32A
Charging power 20A variant	3-phase output: 3,7 – 13,8 kW 1-phase output: 1,4 – 4,6 kW
Charging power 32A variant	3-phase output: 3,7 – 22,0 kW 1-phase output: 1,4 – 7,4 kW
Energy meter	MID class B certified
Communications interface	Bluetooth LE, and Zigbee 4G - LTE Cat 1 bis WiFi - 2.4 GHz & 5 GHz - IEEE 802.11a/b/g/n/ac/ax RFID / NFC – ISO/IEC 14443 A/B Ethernet - RJ45 port Modbus RTU
Frequency utilization	13.56 MHz: < 42dBuA/m 2400 - 2483,5 MHz: <20dBm 5150 - 5350 MHz: <18dBm 5470 - 5725 MHz: <18dBm LTE bands B1/3/7/8/20/28: Class 3
OCPP	Local OCPP 1.6j with enhanced security Hardware ready for OCPP 2.0.1
Security features	Hardware Security and cryptography module TLS 1.3
Degree of protection	Resistant to impact, dust, water IP54: indoor and outdoor use IK08: impact protection UV-resistant
Electrical protection	Protection class I Overvoltage category III (4 kV)
Integrated RCD	RDC-DD (6mA DC)
Installation	Circuit breaker (max 40A) RCD (max 30mA AC) 4 – 16mm cable diameter Single core or stranded wires 1,5 – 6mm ² w/ ferrules 1,5 – 10mm ² w/o ferrules
Regulations and standards ①	RED 2014/53/EU ② RoHS 2011/65/EU ② The full text of the EU Declaration of Conformity (DoC) is available at download.aminacharging.com
ISO 15118-20 Hardware ready new	Bidirectional charging (V2G) Plug & Charge



aminacharging.com