

Amp5



AmpSociety
Charging without compromise

Amp5

Amp5 is a modular, scalable, and future-proof charging system with support for native OCPP. With holistic system architecture, Amp5 delivers the most reliable charging experience on the market.



A worry-free charging experience.

- **Reliable operation** with redundant internet connection (LAN & 4G).
- **Self-healing system** with automatic recovery.
- **Charges more vehicles** or powers engine heaters with 1/3 phase switching.
- **Prepared for Plug & Charge** (ISO 15118-20).
- **ISO 15118-2 Autocharge**.
- **OCPP 1.6 and OCPP 2.0.1 SmartCharging**.
- **Prepared for future V2G**.
- **Lightning-fast load balancing** wired locally or via cloud service.
- **Integrated surge protection** and emergency stop.
- **Fraud protection** with display & digital QR codes.
- **Battery backup** for alarm activation and cable unlocking during power outages.
- **Firmware updates** (FOTA) without interrupting charging sessions.
- **Integrated LED light option** for a safer and more pleasant parking environment.
- **Flexible installation** on walls or ground-mounted with ground screws/spikes.
- **Sustainable & eco-friendly**, made from at least 75% recycled aluminium.
- **5-year warranty** and an expected lifespan of 20 years.



Modular design for easy & reliable installation.



Centralized system architecture for operational reliability.

Data sheet

Max number of charging outlets	54 per Smart Hub ¹	Display	TFT 480x272px, (HxW): 55 x 96 mm
Max number of simultaneous charging sessions	30 per SmartHub ¹	Temperature range – operation	-30°C to +45°C air temperature
Max incoming current	63A per SmartHub ¹	Temperature range – non-operation	-30°C to +65°C non-condensing
Max simultaneous charging power	44kW per SmartHub ¹	Material	Aluminium, at least 75% recycled (post-consumer scrap)
Max charging power per outlet	22kW (3-phase), 7.4kW (1-phase)	Color	Graphite black (RAL 9011), powder-coated
Main fuse	63A, B-characteristic	Lock	EBR-lock "Stockholm"
Communication protocols	OCPP 1.6J / OCPP 2.0.1 SmartCharging / ISO15118-2 Autocharge / ISO15118-20*	IP rating	IP54
Network connection	Teltonika RUT 901 with 4G SIM card LAN Wifi (only for system configuration)	IK rating	IK10
RF technology	GSM, GPRS, EDGE, UMTS/HSPA+, LTE	Other	Customizable display content (logo, QR code, price per kWh, etc.) RCD test with magnetic sensor User interaction via QR code, RFID Lockable charging outlets
RFID type	ISO/IEC 14443 Type A, 13.56 MHz Mifare		
Current measurement	MID certified		
24V input for external breaker	Yes		
Static load balancing (fixed value)	Yes		
Dynamisk load balancing	Yes, Internet or locally (Modbus TCP/RS-485)		
Residual current device	Typ B per outlet (IEC60947-2)		
Fuse	32A per charging module (IEC 60947-2)		
Battery backup (UPS)	Capacitor		
Charging outlet type	Type 2 (IEC 62196-2)		

¹ If more than 54 charging outlets or 30 simultaneous charge sessions is required, additional SmartHubs can be added.

² Prepared for ISO15118-20

