

AmpSociety

Charging without Compromise



The essence of **65 000** charging points

AmpSociety is the result of the accumulated expertise in ChargeNode, Sweden's leading CPO, operating over 65 000 charging points.

Since 2023, the development of next-generation charging systems has been driven by AmpSociety as a subsidiary of ChargeNode Group.

Our mission

AmpSociety's mission is to set the professional standard for reliable and scalable charging systems.

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33 000

charging points sold of Amp5 and its previous product generations

MADE IN SWEDEN

56°40'N 12°51'E

Designed, built and tested in *Sweden*.

Swedish engineering. Recycled aluminium.
Proven in Nordic winters.

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Won on price. Lost on site.

01

AC chargers are designed to operate stand-alone

Poor connectivity, no shared intelligence and slow load balancing result in lost charging sessions and downtime.

02

Profit margin lost to on-site maintenance

Hardware resets, software updates and diagnostics all need an electrician. Every visit eats the margin on the sale.

03

Not future-ready and expensive to scale

Difficult to upgrade hardware components.
Adding more plugs means new groundwork and cabling.

04

Only as good as the local electrician

Site quality rests on the electrician's craftsmanship. Wiring errors surface as faults months later, at your expense.

WHERE IT FITS

One system. Multiple customer segments.

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BY SEGMENT

The reason changes. The system doesn't.

RESIDENTIAL

Easy to scale

Easily add charging points as residents switch to EVs. No new cabling or groundwork needed.

PUBLIC & LOGISTICS

Reliable uptime

Self-healing, redundant connectivity and intelligent load balancing keep uptime high, so every EV leaves fully charged.

RETAIL & DESTINATION

Charging your brand

Customers judge a site by whether charging works and how it looks. Amp5's sleek design and optional LED lighting enhance the parking experience.

REAL ESTATE & PARTNERS

Consistent quality. Lower TCO

Pre-tested modules assembled the same way every time, so install quality is never left to chance. Remote updates and self-healing hold TCO down.

Amp5 – Modules

All modules are pre-tested and designed to work seamlessly together for maximum uptime.



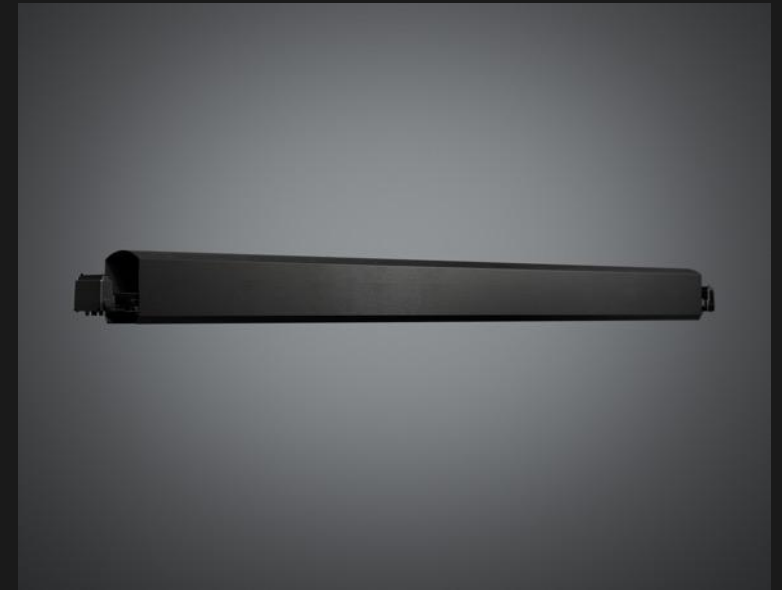
SmartHub

The heart of Amp5. LAN/4G connectivity, self-healing watchdogs, surge protection, emergency stop, UPS backup, dynamic load balancing, and FOTA/OTA updates.



ChargePod

One or two charging ports with self-healing Type B RCD and 32A overcurrent protection, 4.3" TFT display, digital QR codes and RFID.



ConnectBar

Fast connector linking ChargePod units. Adapts to 2.3–4.1m wide parking spaces. All wiring integrated.

MOUNTING

Ground

For open parking areas and long rows.



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Wall

No cabling, no floor fixings.



Half the hours, **on every point.**

CONVENTIONAL INSTALL

30h

10 plugs at 3.0 hours each.

WITH AMP5

15h

10 plugs at 1.5 hours each.



SAVED PER SITE

15h

~2 working days back to the crew.

Central commissioning

Configured centrally at system level, not station by station.

Self-healing system

Multiple watchdogs with automatic hard resets save on-site visits.

FOTA

New firmware updates over the air. No site visits and no broken charging sessions.

Easy upgrades and build outs

Easily swap a module or component. Add modules to add charging points.

Assumes a 10 point site. Conventional install at 3.0 hours per charging point, Amp5 at 1.5 hours per charging point.

Built to **stay up.**

01

Self-healing by design

Multi-level watchdogs monitor function and connectivity, and reboot at processor level when needed. No site visits needed.

03

Updates without downtime

FOTA reaches every module remotely. New firmware activates in about two seconds, with no impact on an ongoing session.

02

Redundant connectivity

LAN and 4G in the SmartHub, wired 2xLAN between ChargePods. If one path drops, the system stays reachable.

04

Protection built in

Self-healing Type B RCDs and 32A overcurrent protection. Central surge protection. On power loss, UPS backup releases the cable and alerts the CPO or property owner.

Amp5 supports EN 61851-1 and IEC 60947-2 Annex B. A fire alarm halts all charging sessions via the 24V emergency stop input.

Metered billing you can *verify*.

01

MID certified metering

Energy measured to legal metrology standards, so each kWh billed is traceable and accurate.

02

Session specific QR

A dynamic, per session QR code on the display lets the driver confirm the charge independently and guards against fraud.

03

Eichrecht conformity

Calibrated, verifiable per kWh billing for German speaking markets, certified together with MID in a single process.

MID and Eichrecht certification in process at NMI in the Netherlands. **Completion expected in October 2026.**





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SYSTEM FEATURES

Lightning fast & intelligent DLM

Dynamic load management (DLM) runs locally in the SmartHub via Modbus TCP/RS-485, no cloud dependency.

Wired (2xLAN) connection between all charging points for lightning-fast response.

Protects main fuse

Rapid DLM based on your property's overall power consumption, regulated per phase and in total.

Charge more EVs

Amp5 automatically assigns single-phase EVs to the least loaded phase, optimizing capacity across all three phases.

Charging strategies

Priority Max Power, active sessions get max power; ideal for visitor and short-stay parking.

Fair Shared Power, capacity distributed equally; ideal for residential and workplace charging.

Smart charging

Charging optimization can be managed by cloud service (CPMS), overriding local settings. Automatic fallback to local strategy if offline.

OPEN BY DEFAULT

Pure OCPP. No proxy, no lock-in.

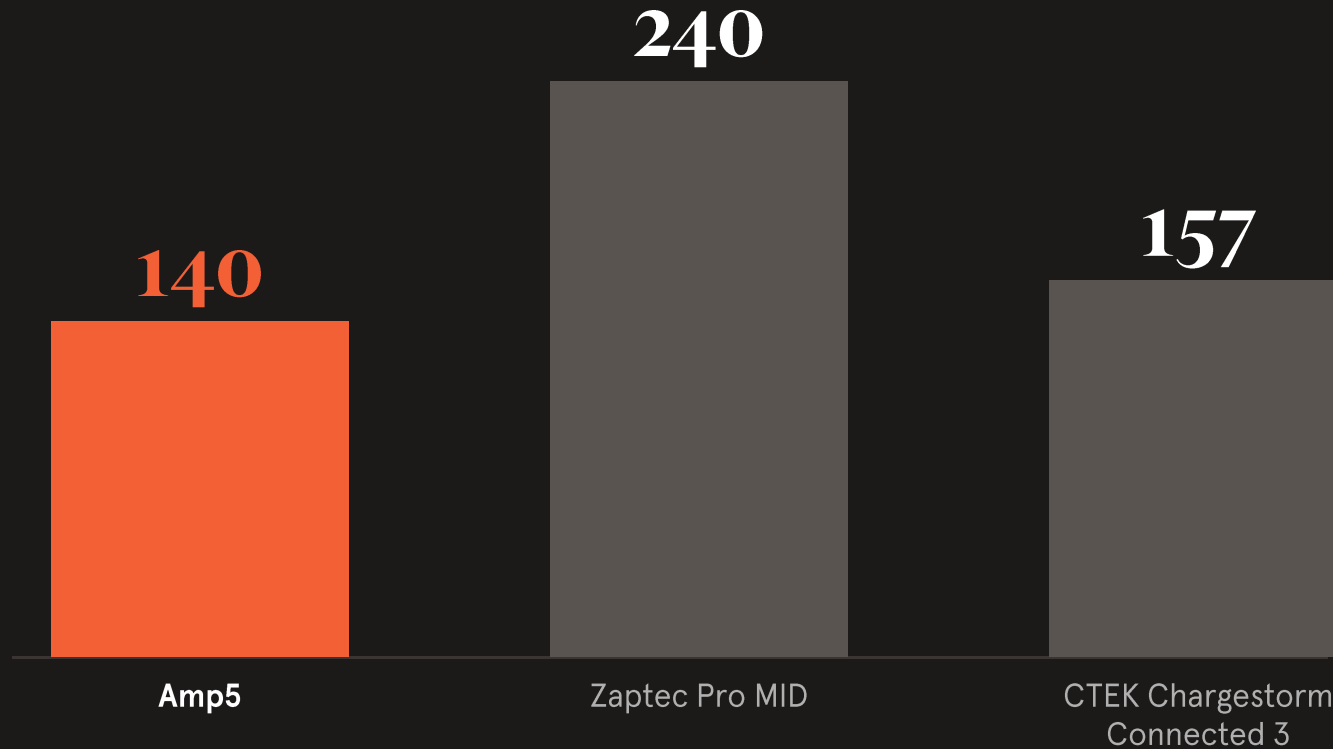
OCPP 1.6J and 2.0.1. ISO 15118-20 hardware ready. Autocharge (15118-2) in production, Plug & Charge Q1 2027.

ChargeNodeMontaCURRENTRE&GOeMablergreenfluxMOBILITY 46ChargePanelAMPECOWaybler

Certified by leading platforms

Up to 42% lower climate impact.

kg CO₂e per socket · 20-socket system · 10-year life · Swedish mix · GWP-GHG



RESULT

42%



lower climate impact than **Zaptec Pro MID**¹

Recycled metal, built to last.



>75% recycled aluminium²

20 yr expected lifespan

90% recycling target by 2026

5 yr product warranty

¹EPD results calculated by Miljögraff AB and normalized to a common basis (per socket, 10-year reference period, Swedish electricity mix, GWP-GHG).

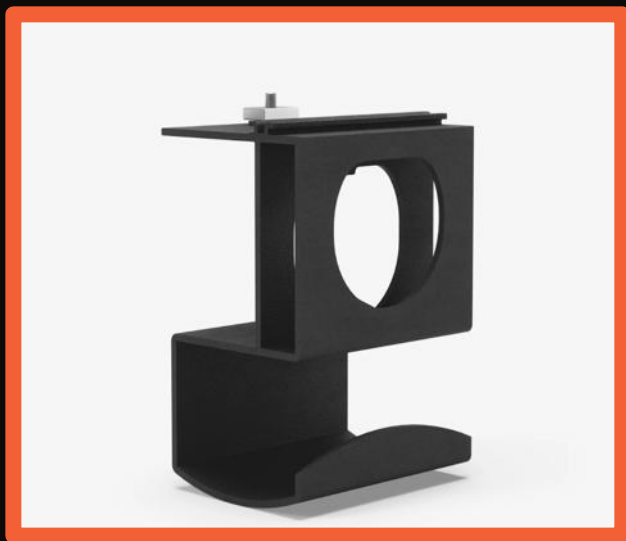
²Aluminium is Hydro Circal®, EPD certified with LCA per ISO 14040-44.

Charge hook

Fixed cable convenience, without the fixed cable.

Amp5 supports software-controlled cable locking: the cable locks into the charging socket and can be remotely unlocked when needed.

Fully retrofittable: the charge hook can be added to any existing Amp5 installation.



ACCESSORIES

LED Lighting

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Color temperature: 4000K, Power: 8 W per meter, Luminous flux: 1050 lm per meter.



The 3D planning tool built *on Unreal Engine.*

The same game engine that powers Fortnite now helps electrical installers design, visualise, and plan complete Amp5 installations in a realistic 3D environment.



FOR

Reseller, installers, project managers

OUTPUT

Bill of material, price, 3D images

FLOW

Idea → 3D model → order, in one tool

CLIENT INSTALLATIONS

Already in the ground.

400+

plugs installed. Amp5 is the preferred hardware supplier.

Stena Fastigheter

Sweden

200+

plugs powering ESS Group, a leading Scandinavian hotel group

ESS Group

Nordics

100+

plugs installed across a diversified real estate portfolio.

Wihlborgs Fastigheter

Sweden

CLIENT INSTALLATIONS

Stena Fastigheter

From just over 100 Amp5 charging points in early 2025 to more than 400 by early 2026, with a target of at least 10% total chargeable parking bays.

“We’re scaling EV charging fast, and we needed a system that’s built to grow with us. Amp5 gives us a stable, future-proof setup that’s easy to expand.”

Jonas Augustsson, Purchasing Manager

CLIENT INSTALLATION

Rox Resort – Køge, Danmark

Amp5 is the preferred charging hardware across all 15 ESS Group destinations, delivering reliable charging systems built for scale.

“With its sleek design, Amp5 blends seamlessly into our hotels and gives guests effortless & dependable charging.”

Jonas Stenberg, CEO, ESS Group



CLIENT INSTALLATIONS

Wihlborgs Fastigheter

Slagthuset in Malmö, a landmark from 1904, now holds culture, events and businesses.
Amp5 was installed in garage in 2025, chosen for pure OCPP without proxy and no lock-in.

*“For us, uptime and long-term flexibility are critical.
We want to work with open protocols and be able
to control the system remotely.”*

Daniel Karlsson, Technical Coordinator

Amp5 Data sheet

Max number of charging outlets	54 per SmartHub¹	Display	TFT 480x272px, (HxW): 55 x 96 mm
Max number of simultaneous charging sessions	30 per SmartHub¹	Temperature range – operation	-30°C to +45°C air temperature
Max incoming current	63A per SmartHub	Temperature range – non-operation	-30°C to +65°C non-condensing
Max simultaneous charging power	44kW per SmartHub¹	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-characteristics	Lock	EBR-lock “Stockholm”
Communication protocols	OCPP 1.6J / OCPP 2.0.1 SmartCharging / ISO15118-2 Autocharge / ISO15118-20²	IP rating	IP54
Network connection	Teltonika RUT 901 with 4G SIM card & LAN. Wifi hotspot (only for configuration)	IK rating	IK10
RF technology	GSM, GPRS, EDGE, UMTS/HSPA+, LTE	Warranty	5 years
RFID type	ISO/IEC 14443 Type A, 13.56 MHz Mifare	Other	Customizable display content (logo, QR code, price, etc.). RCD test with magnetic sensor. User interaction via QR code, RFID, NFC. Lockable charging outlets.
Current measurement	MID certification expected in Q3 2026		
24V input for external breaker	Yes		
Static load balancing (fixed value)	Yes		
Dynamic load balancing	Yes, via Internet or locally (Modbus TCP/RS-485)		
Residual current device	Type B per outlet (IEC 60947-2)		
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

Get in touch



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