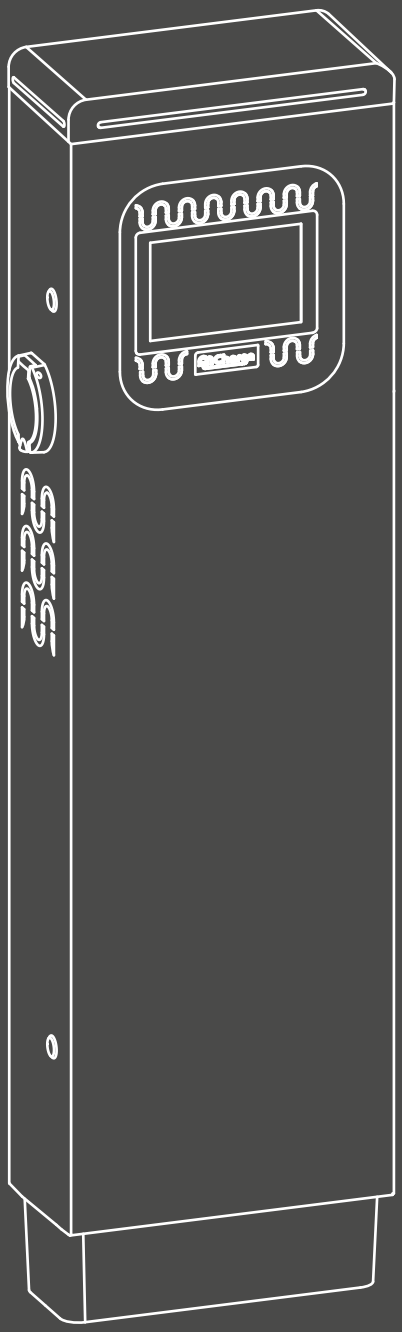
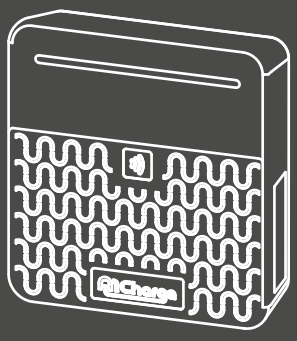
A1Charge

Electrify your way





Product Catalogue 2026

INDEX

ELECTRIC VEHICLES 4

EV CHARGING MODE 6

EV CHARGING SPEED 8

WHO WE ARE 10

A1 CONNECT 16

- Digital services
- Tracking Platform
- Mobile application
- Predictive Maintenance

PRODUCT CATALOGUE 23

CITY WALL CHARGING SYSTEMS 24
Series A1 1500

CITY TOWER AC STATIONS 28
Series A1 5000

ULTRA FAST CHARGING STATIONS 34
Series A1 9000

ACCESSORIES 44

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02/2026


Electrify
your way



Electric Vehicles

The electric vehicle market includes a wide range of vehicles divided into Full electric (BEV) and Hybrid Plug In (PHEV) Battery Electric Vehicle (BEV).

Battery Electric Vehicle (BEV)

A battery electric vehicle (BEV) is characterized by the ability to store energy within the vehicle's included batteries and move with only electric motors, thus without internal combustion. It there fore requires periodic recharging of the battery for proper operation.

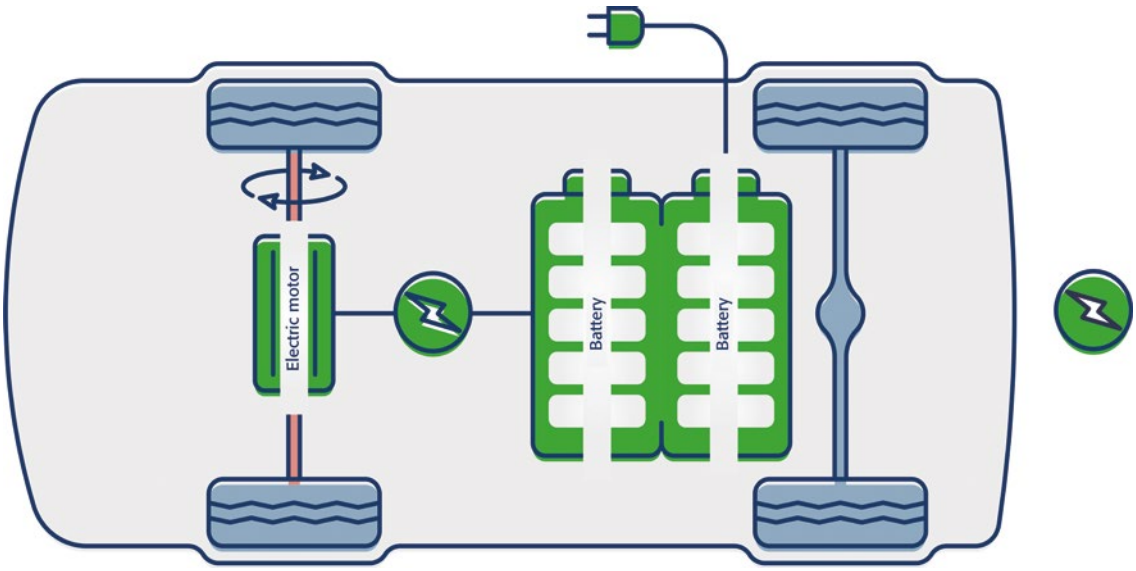
Plug-In Hybrid Vehicle (PHEV)

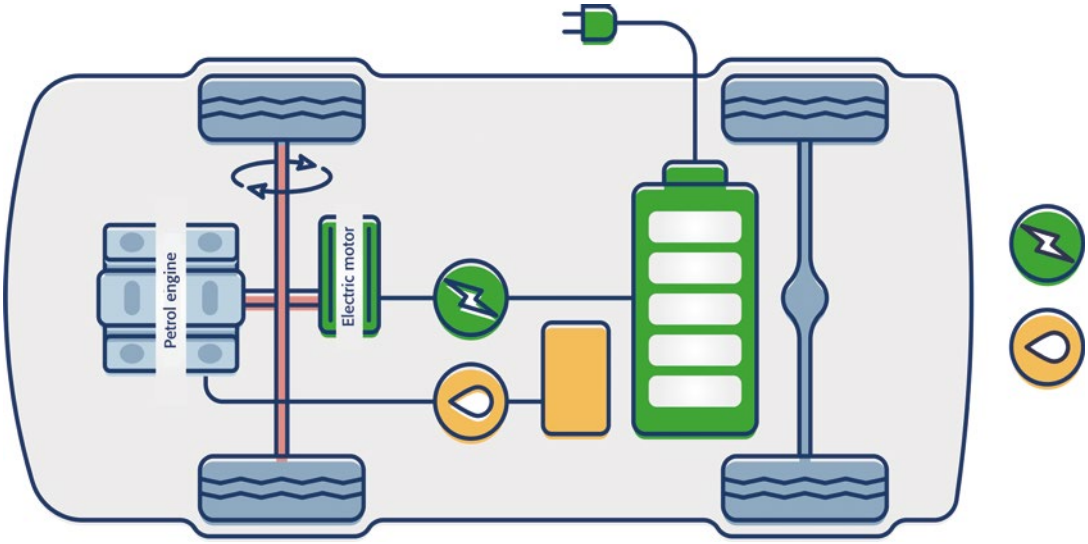
Unlike the previous model BEV. in the vehicles PHEV coexists both an electric motor and endothermic motor. In this case,

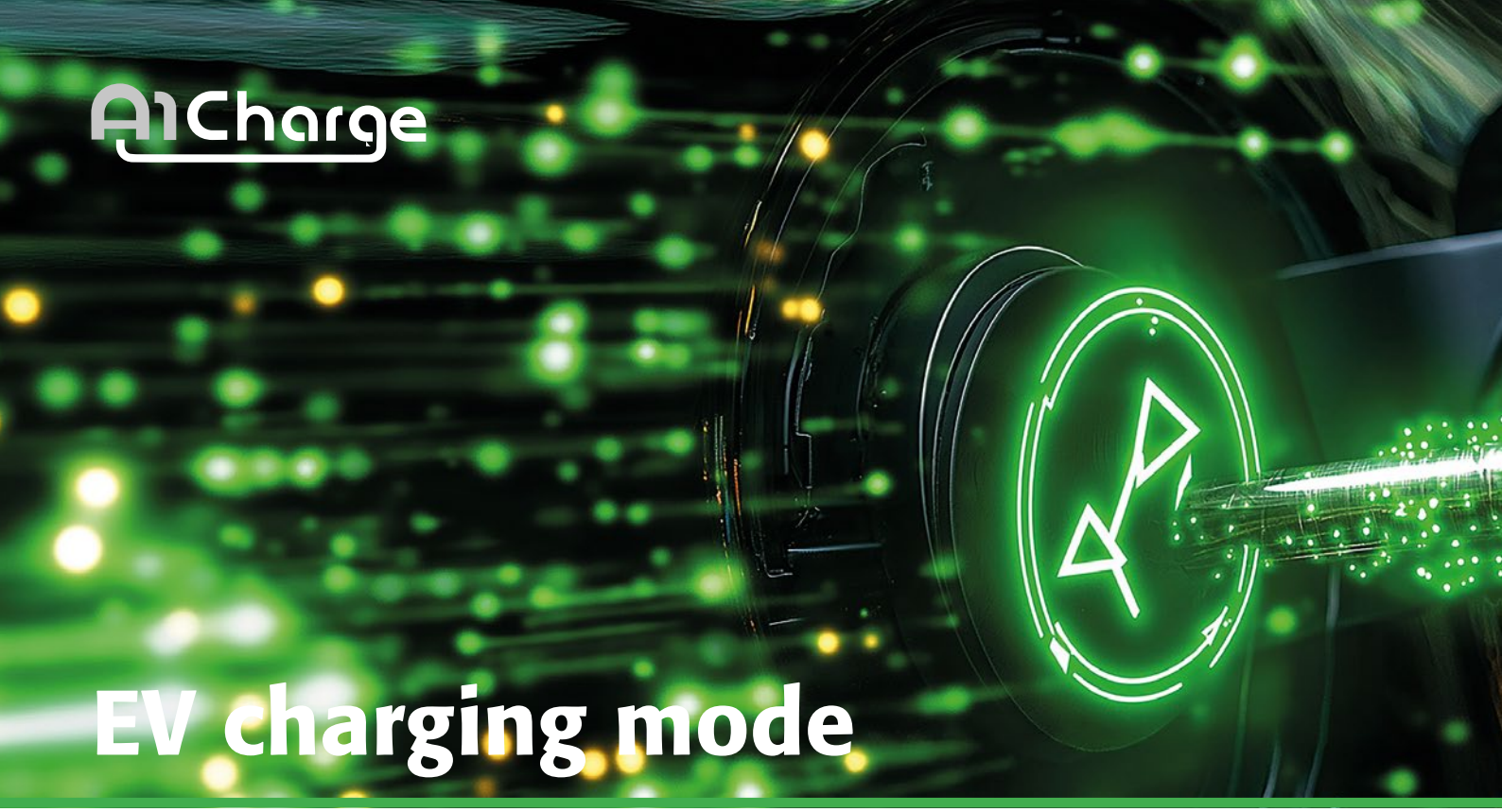
The batteries can be recharged from an external plug (PHEV or directly from the endothermic engine (Hybrid).

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Electric motor
Battery
Battery


Petrol engine
Electric motor



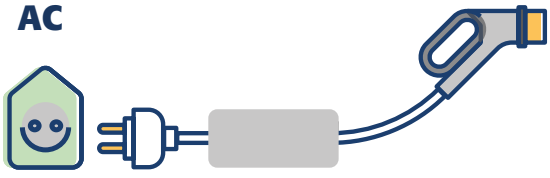
EV charging mode

① Mode 1 - Home socket and extension cord in AC



Mode 1 is the direct connection of the electric medium to household outlets (230/400VAC)

② Mode 1 - Mode 2 - Home socket with AC control

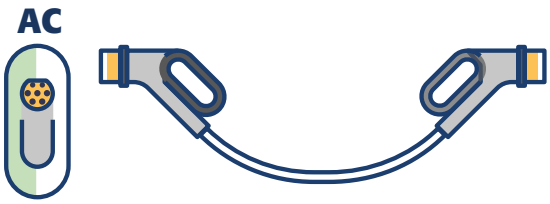


Mode 2 is the direct connection of the electric medium to household or industrial outlets (230/400VAC) through a cable that integrates control electronics between the vehicle and the power grid.
It is therefore a portable charging station for use in private areas only.

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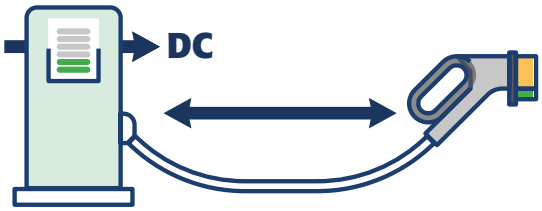


③ Mode 3 - Fixed AC charging station with removable cable



These are fixed charging stations (WallBox) in **230/400 V alternating current** specifically for electric vehicle charging that provides appropriate fixed control contacts. The sockets and connectors adopted for Mode 3 in Europe and other countries are those of Type 2, according to **EN 62196-2.**

④ Mode 4 - Fixed DC charging station



This charging method consists of connecting the vehicle to DC connectors incorporating, control and protection functions and the Charger regulating the charging current delivered.
Dedicated method for 'Fast and Ultra Fast charge" involving power above 20 kW/ DC up to the maximum powers of the A1 9000 line.



Slow and fast charging

Charging speed is affected by multiple factors:

The maximum power of the electric vehicle chargers, its capacity, and on-board battery technology.
The maximum power of the charging station, the charging mode and consequently the related connector.
The type of cable used for charging,
The charging temperature: batteries charge faster at higher temperatures, but too high a temperature can damage the battery.

Type	Charging modes	Power	
LENTA O SLOW	(2) (3)	3,7 kW ÷ 7,4 kW	**AC** Alternating current
ACCELLERATA O QUICK	(3)	7,4 kW ÷ 22 kW	
FAST	(3)	> 22 kW	
	(4)	50 kW	**DC** Direct current
ULTRA FAST	(4)	60 kW ÷ 180 kW	
HIGH POWER CHARGING (HPC)	(4)	> 150 kW - 350 kW	**DC** Direct current
ULTRA-FAST CHARGING	(4)	> 350 kW - 400 kW	**DC** Direct current



Connectors

The type of connectors to recharge electric vehicles (BEVs) varies from the regulations of the country of marketing, individual manufacturers, and the type of charging.

Charge	North America	Japan	China	Europe *(remaining market)*	
AC					
	J1772 (type 1)	J1772 (type 1)	GB/T	Type 2	NACS
DC					
	CCS1	CHAdeMO	GB/T	CCS2	NACS

About us

A1Charge is a brand of the B810 Group, active in the electric mobility sector, specialised in the design and production of charging station for Electric vehicle ranging **from domestic Wallboxes to Ultra-Fast DC charging stations.**

With over 300 staff and a team of 25 R&D engineers, B810 Group supports A1Charge through an integrated approach that combines design, industrialisation and electronic manufacturing services (EMS) across its production plants in Italy and abroad.

A1Charge charging stations are designed to serve both **private and public environments,** integrating seamlessly and accessibly into modern urban settings.

The offering also includes **installation, maintenance, technical support, and refurbishment services** for wallbox and tower charging stations, promoting sustainable practices and long-term partnerships.



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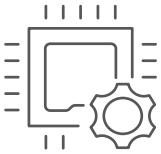
R&D



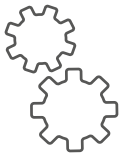
Architecture



Software design



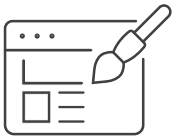
Hardware design



Mechanical design



Product customization



User interface



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A1Charge


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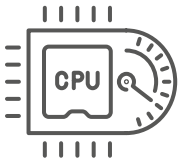
Customized solutions



Design



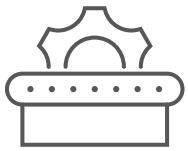
Interface



Certifications and Homologations



Operations



Production



Logistics



Telematics box and wallbox installation



After-sales service



A wide range of digital and cloud services for complete and autonomous management of the entire charging ecosystem in both public and private spheres.
The easy and intuitive interface allows complete management and monitoring of the fleet of installed charging stations in the territory

Basic IT infrastructure services

Cloud Platform

Look&Feel

Mobile App

Software maintenance

Integration with third parties

Charging point payment

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A1 Connect
Digital Services

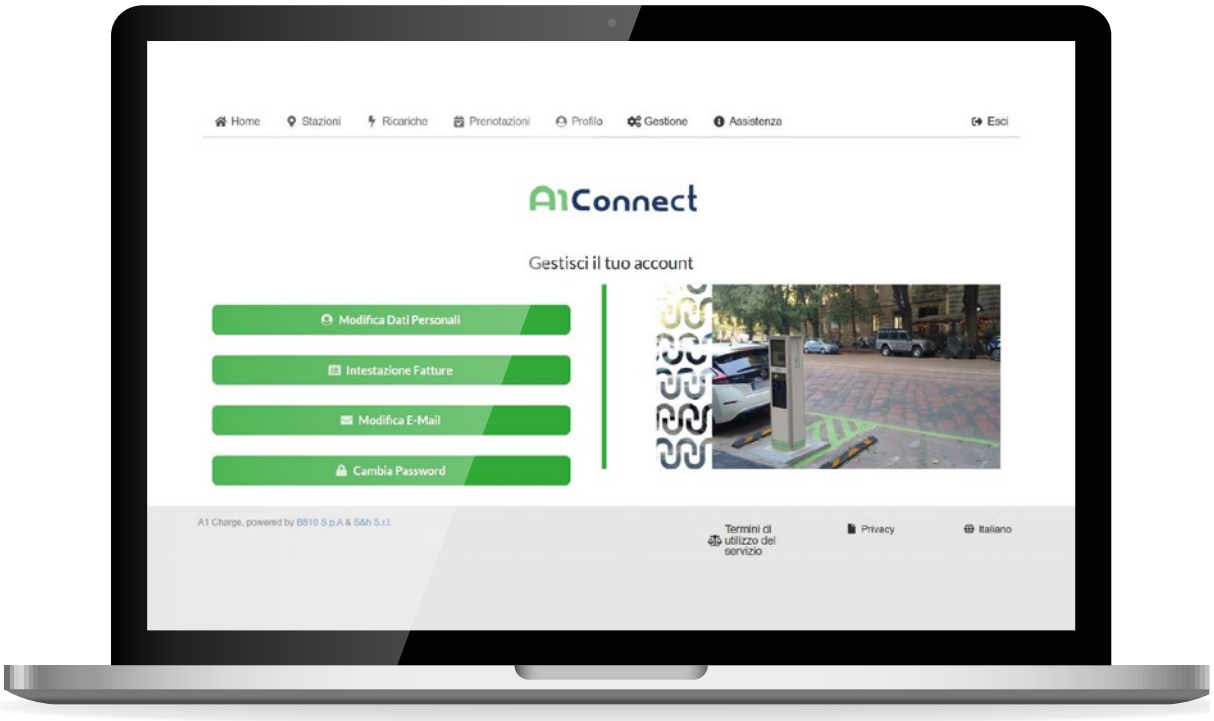


Optional Services

Air Quality

Carbon FootPrint





Additional Features

Experience reviews

Charging point analytics

Price setting and managementi

Power output monitoring

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Managing platform

The A1 Connect platform is dedicated for charging service operators (EMSPs) and CPOs to control total clogged stations in the territory.
For each charging station, parameters can be monitored and alerts or analytical reports on efficiency can be received.

In detail, the platform allows management of the following parameters:

- Time of use of each station and related energy costs
- Information on the status of individual charging ports (in use, failure, available service request)
- Total overall power output
- Number of vehicles/charging fidelities
- Number of charging sessions
- Average time of each recharge
- Revenues generated from recharges
- Energy consumed and other ancillary costs/depreciation



Sustainability Analytics



Management of installed base



Revenue Trends



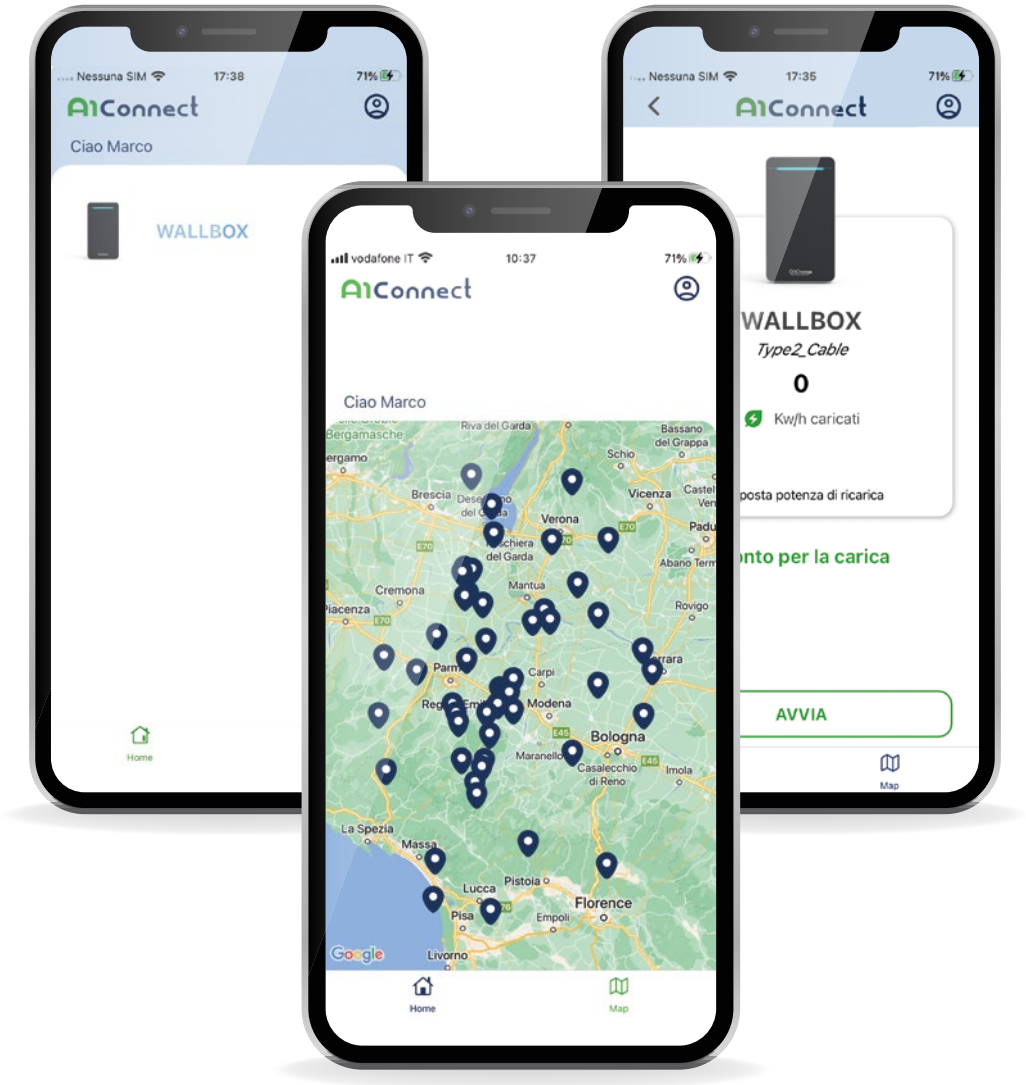
Fleet specific settings



Available features

Wallbox home charging management

Management of public charging



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Mobile App

The A1 Connect App allows the user to monitor and manage public, private and domestic charging from the comfort of the cell phone,
Users can easily find the most convenient charging point for them, start and stop charging, and have full access to the database of stations, charging speed and individual outlets available.

Additional Features



Geolocation using search filters



Charging info



Availability and reservations



RFID card



Charging socket



Station features



In-App Support



Type of Area



Easy start and stop



In-App payments



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PRODUCT CATALOGUE
2026

A1Charge

A1Charge

NEW 2026



A1 1500
City Wall

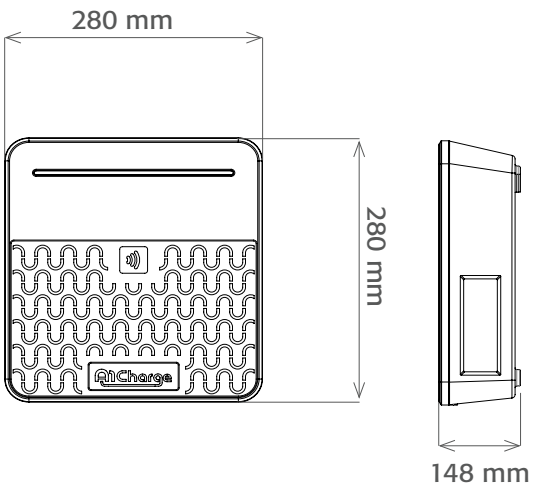
TYPE 2 SOCKET

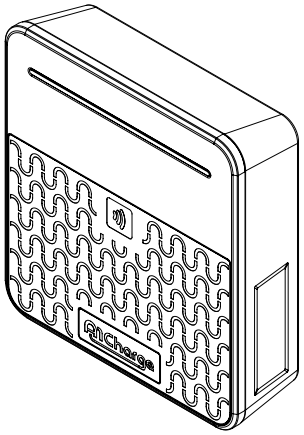
SINGLE-PHASE AND THREE-PHASE

ALTERNATING CURRENT

CONFORMITY

Dimensions





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	Smart 7	Smart 11	Smart 22
Product Information			
Charging Mode	Mode 3 (IEC 61851.1)		
Output Power&Current Rating	7.4kW/32A max.	11kW/16A max. (Three phases input) 3.7kW/16A max, (Single phase input)	22kW/32A max. (Three phases input) 7.4kW/32A max. (Single phase input)
Input Voltage Rating	230V AC ±10%. 50/60Hz. Single phase (L1+N+PE)	400V AC ± 10%. 50/60Hz. Three phases (L1+L2+L3+N.+PE) 230V AC ±10%. 50/60Hz. Single phase (L1+N+PE	
Earthing System	TN-S. TN-C-S. TT. IT (L1+L2 230V AC Single phase. optional)		
Charging Interface	1 x Type 2 plug (Case C)		
Metering	Onboard metering chip. Accuracy: 1%		
Internal RCD	6mA DC		
Protection	Overcurrent. Overvoltage. Undervoltage. Residual current. Over temperature. Grounding fault. Integrated surge protection		
User Interface			
Screen Type	No		
Status Indication	LED indicator		
Emergency Stop Button	Optional		
User Authentication	RFID cord. APP. Free charging		
RFID Reader	ISO/IEC 14443 A. ISO/IEC 15693		
Communication			
Connectivity	4G.wifi. Ethernet. RS485		
Bluetooth	5.0		
Communication to the Backend	OCPP 1.6J		
Communication to the EV	Control pilot		
Environmental			
Operating Temperature	-30°C to 50°C		
Storage Temperature	-40°C to 85°C		
Humidity	5% to 95% no condensation		
Altitude	≤3000m above sea level		
Mechanical			
IP Rating	IP65	IP55	
IK Rating	IK10		
Charging Cable Length	5m		
Dimensions (WxHxD)	280*280*148mm (Pole: 100*1210*50mm)		
Weight	Approx. 4.0kg (Case C. include 5m cable)	Approx. 6.1kg (Case C. include 5m cable)	
Installation	Wall mounting. Pole mounting (Pole is optional)		
Certification and Standards			
Standard e conformity	IEC 61851-1, IEC 62955, IEC 61851-21-2, LVD 2014/35/EU, RED 2014/53/EU, RoHS 2.0, REACH		
Certification	CE-RED, CB		



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Series A1 5000

The A1 5000 range consists of charging stations in AC single-phase and three-phase for public and commercial use up to 22kW. The stations have a 7" display to preside over charging and can be configured with one or two charging points

Hotel

Small industries

Market

Parking lot

Type 2

Single-phase or three-phase powe

Alternating current

Multi-station power contro

Costumizable interface

Design and manufacturing in Italy

A1Charge

A1Charge

NEW 2026



A1 5000
City Tower Single-phase

TYPE 2 SOCKET

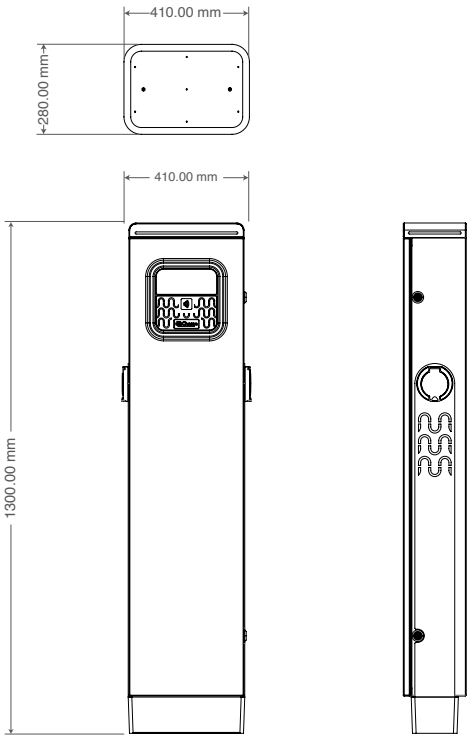
SINGLE-PHASE

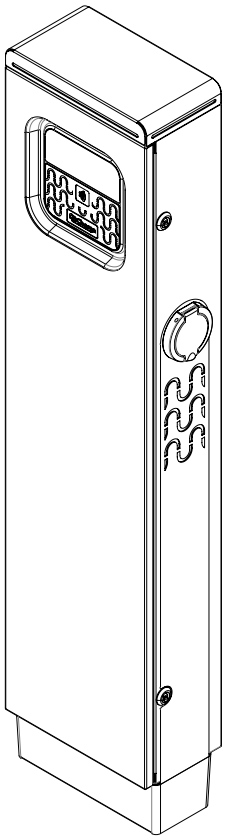
ALTERNATING CURRENT

RECHARGE MONITORING

CONFORMITY

Dimensions





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Electronics	
Power supply voltage	230 VAC
Frequency	50 Hz
Charging points	n. 1 (o 2) shutter socket
Max output power	7,4 kW (+ 7,4) kW single-phase
Max Current Consumption	32A (+ 32A)
Socket Type 2	Type 2
Modo di ricarica Modo 3	Modo 3
Multi-station power control	With optional A1S-200 accessory
Mechanics	
Dimensions	410 x 280 x 1300 mm
Weight	40Kg
Standard materials	Weatherproof and anti-vandal treated sheet metal
Saline Solution Protection	Resistant
UV Protection	Resistant
Optional materials	Stainless steel with your choice of finish
Graphic customization	Wrapping with customer customization
Customization Base plate (dimensions)	330 x 460 mm
Pillar fixing	Grounded with anchor bolts or chemical anchorsi
Shockproof pole	Optional
Canopy cover	Optional
Environmental	
Operating Temperature	-25° +50° C
IP grade	IP55
IK grade	IK09
Relative humidity	5% - 95%
Altitude	2.000 mt
Charge Activation	
Recharge Activation	Card RFID (ISO 14443A) On OCPP (Mobile App, Web App)
User interface	Display 7'' full-color touch Status LEDs and Mobile App
Connectivity	
Ethernet (standard)	RJ45 - 802.3 Ethernet network
WI-FI (optional)	IEEE802.11 b/g/n
Cellular Module (optional)	2G-4G LTE
Low range Connectivity (optional)	Bluetooth Low Energy
Communication protocols	OCPP 1.6J - 2.0 Ready
Communication protocols (optional)	MQTT
Conformity	
Certifications	CE - RoHS



A1 5500
City Tower Three-phase

TYPE 2 SOCKET

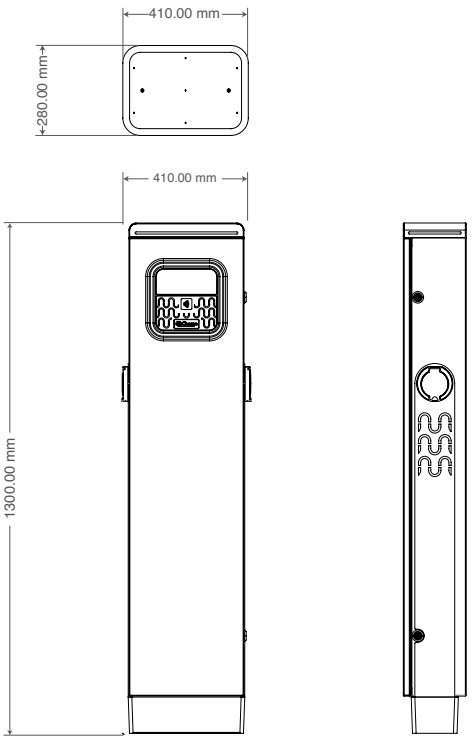
THREE-PHASE

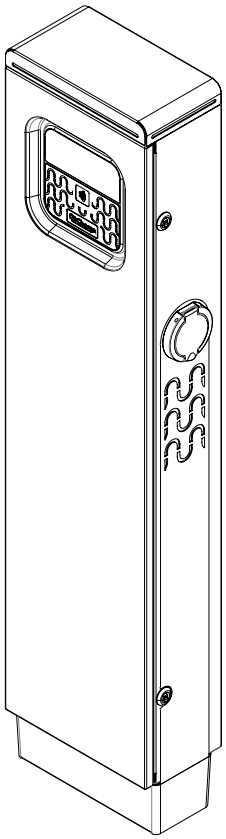
ALTERNATING CURRENT

RECHARGE MONITORING

CONFORMITY

Dimensions





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Electronics	
Power supply voltage	230 VAC
Frequency	50 Hz
Charging points	n. 1 (o 2) shutter socket
Max output power	22 kW (+ 22) kW three-phase
Max Current Consumption	32A (+ 32A)
Socket Type 2	Type 2
Modo di ricarica Modo 3	Modo 3
Multi-station power control	With optional A1S-200 accessory
Mechanics	
Dimensions	410 x 280 x 1300 mm
Weight	40Kg
Standard materials	Weatherproof and anti-vandal treated sheet metal
Saline Solution Protection	Resistant
UV Protection	Resistant
Optional materials	Stainless steel with your choice of finish
Graphic customization	Wrapping with customer customization
Customization Base plate (dimensions)	330 x 460 mm
Pillar fixing	Grounded with anchor bolts or chemical anchorsi
Shockproof pole	Optional
Canopy cover	Optional
Environmental	
Operating Temperature	-25° +50° C
IP grade	IP55
IK grade	IK09
Relative humidity	5% - 95%
Altitude	2.000 mt
Charge Activation	
Recharge Activation	Card RFID (ISO 14443A) On OCPP (Mobile App, Web App)
User interface	Display 7'' full-color touch Status LEDs and Mobile App
Connectivity	
Ethernet (standard)	RJ45 - 802.3 Ethernet network
WI-FI (optional)	IEEE802.11 b/g/n
Cellular Module (optional)	2G-4G LTE
Low range Connectivity (optional)	Bluetooth Low Energy
Communication protocols	OCPP 1.6J - 2.0 Ready
Communication protocols (optional)	MQTT
Conformity	
Certifications	CE - RoHS



A1 5700
City Tower Three-phase

TYPE 2 PLUG WITH CABLE

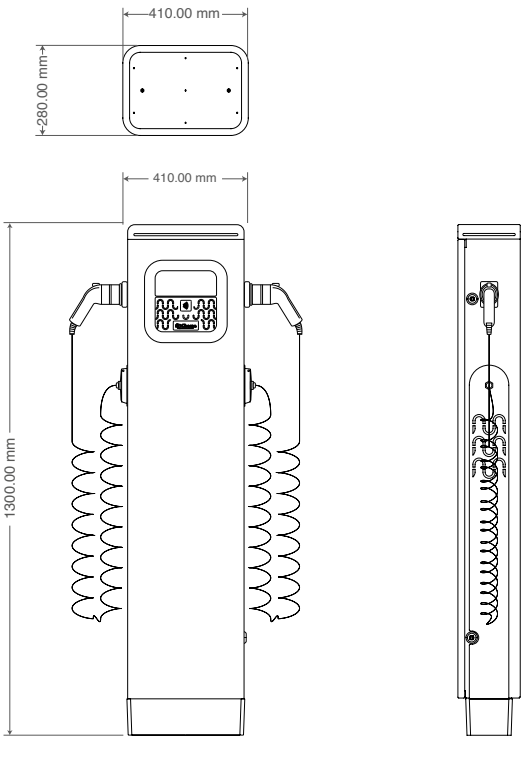
THREE-PHASE

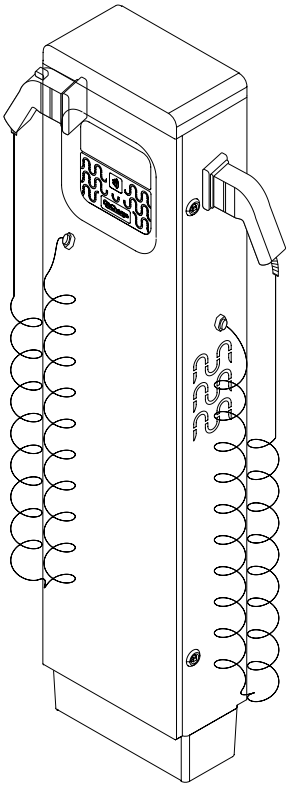
ALTERNATING CURRENT

RECHARGE MONITORING

CONFORMITY

Dimensions





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Electronics	
Power supply voltage	400 VAC
Frequency	50 Hz
Charging points	n. 2 connectors
Max output power	22 kW (+ 22) kW three-phase
Max Current Consumption	32A (+ 32A)
Socket Type 2	Type 2
Charging mode	Mode 3
Multi-station power control	With optional A1S-200 accessory
Mechanics	
Dimensions	410 x 280 x 1300 mm
Weight	40Kg
Standard materials	Weatherproof and anti-vandal treated sheet metal
Saline Solution Protection	Resistant
UV Protection	Resistant
Optional materials	Stainless steel with your choice of finish
Graphic customization	Wrapping with customer customization
Customization Base plate (dimensions)	330 x 460 mm
Pillar fixing	Grounded with anchor bolts or chemical anchors
Shockproof pole	Optional
Canopy cover	Optional
Environmental	
Operating Temperature	-25° +50° C
IP grade	IP55
IK grade	IK09
Relative humidity	5% - 95%
Altitude	2.000 mt
Charge Activation	
Recharge Activation	Card RFID (ISO 14443A) On OCPP (Mobile App, Web App)
User interface	Display 7'' full-color touch Status LEDs and Mobile App
Connectivity	
Ethernet (standard)	RJ45 - 802.3 Ethernet network
WI-FI (optional)	IEEE802.11 b/g/n
Cellular Module (optional)	4G LTE
Low range Connectivity (optional)	Bluetooth Low Energy
Communication protocols	OCPP 1.6J - 2.0 Ready
Communication protocols (optional)	MQTT
Conformity	
Certifications	CE - RoHS - RED

ULTRA FAST CHARGING STATIONS



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Series A1 9000

The A1 9000 range consists of Ultra Fast DC charging stations with progressive powers from 60kW up to 150kW and a range of configurable accessories.



Stations



Industries



Terminals



Parking lot



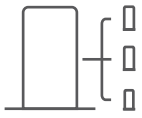
CCS COMBO 2 + 5m cable



Optional sockets



DC Current



Multi-station power control



Costumizable interface



Design and manufacturing in Italy

A1Charge

A1 9000 LITE


1DC CCS
2DC CCS
RFID
EMERGENCY STOP
FAULT
ONLINE
Press button to release the plug
Press button to release the plug

A1 9000 LITE
City Station DC 90/120kW + AC 22kW

SEED160 is a versatile, multi-standard DC charging station with a maximum capacity of 160 kW, supporting CCS Combo 2 and/or CHAdeMO. It operates within a voltage range of 500 Vdc to 920 Vdc, with maximum current adjustable according to the voltage. It delivers up to 350A CCS (450A peak), a maximum of 200A CHAdeMO, and an optional 1× AC Type 2 socket, 32A, 22 kW.
SEED160 can provide 2 × 80 kW simultaneously or 1 × 160 kW for a single charging session.
Designed to meet the needs of electric vehicle owners and operators, it prioritizes safety, ease of use, and fast charging performance. Thanks to Internet connectivity and OCPP integration, users and operators can easily connect to and manage the charger through various back-office software systems, payment platforms, or smart grid solutions.
SEED160 can be customized with logos and elegant color combinations such as glossy black and aluminum, champagne and dark grey, or orange and aluminum.

- Reduced footprint, ground-mounted
- Single or dual configurable output: CCS2, CHAdeMO
- Optional AC Type 2 22 kW, 32A
- DC power up to 160 kW, 350A (450A peak)
- Voltage range: 150–1000 Vdc
- Dynamic power sharing: 2 × 80 kW or 1 × 160 kW
- Scalable: 90 kW, 120 kW, and 160 kW
- OCPP integration
- Highly reliable and safe, robust and vandal-resistant
- Low maintenance, low energy consumption
- Easy to install and operate
- Compact dimensions: only 600 × 575 × 1650 (H) mm
- Customizable branding with multiple color options

Connector	DC CCS2 (spina B) IEC 62196-3	CC CHAdeMO JEVS G105	(Optional) AC Type 2 cable – IEC 62196 Mode 3
Output voltage	150–1000 Vdc	150–500 Vdc	400 VAC ±10%
Output current	350A (450A peak)	200A	3 × 32A (22 kW socket or plug)
Max output power	2 × 80 kW simultaneous or 1 × 160 kW		22 kW
Efficiency	93%–96.5% when load >10%		–
Power factor	>0.99 at 400 VAC, full load		–
Protection and safety	Overvoltage protection, output short-circuit protection, overcurrent, overvoltage, undervoltage, grounding monitoring, insulation monitoring, overtemperature protection with heating when internal temperature < 50°C		Ground monitoring, overcurrent protection, residual current protection (Type B)

Caratteristiche comuni	
AC input	400 VCA +/- 10% / three-phase + PE / 45-65 Hz kW | Iac | Inrush current 90 | 154 | 180 120 | 205 | 240 160 | 273 | 320
Cable lengths	2 x CCS2 350A, 5 mt 1 x CCS2 350A, 1 x CHAdeMO 200A, 5 mt (optional) 1 x AC tipo2 22kW 32A
User interface	7" color TFT LCD, touchscreen
Authentication and payment	RFID reader ISO15693 + ISO14443 A/B, Mifare S50 / S70, Mifare Ultralight, NFC tags and compatible cards
(Optional) Energy meter	(Optional) Anonymous credit card payment terminal
Network connection	DC energy meter with calibration certificates
Remote access protocol	(Optional) MID / Eichrecht compliant (German calibration law compliant)
Operating temperature range	Connectivity:
Storage temperature	Ethernet 10/100 Base-T, Wi-Fi, GSM 3G/4G LTE CDMA
Relative humidity	(Optional) GPS
Protection rating	Remote communication protocol:
Enclosure / Environment	OCPP 1.6 JSON
Safety and electromagnetic compatibility	Operating temperature:
Dimensions (W × D × H) / weight	-25°C to +50°C (derating above 40°C ambient)
LED indicators	Optional: -35°C to +50°C
Options	Combinazione di colori e loghi personalizzati / Contatore di energia DC MID o Eichrechtskonform (conforme a GCL) / Piattaforma di gestione NEX2Vision / Certificazione CHAdeMO

A1 9000 PRO



A1 9000 PRO
City Station DC 180/400kW

Introducing SEED400, a high-performance 400 kW DC charging station (up to 1000 Vdc) designed to charge two vehicles simultaneously. Its Dynamic Power Sharing technology intelligently distributes power, providing flexible energy allocation based on charging demand.
With a wide voltage range of 150–1000 V and an optional CHAdeMO cable, SEED400 prioritizes safety, ease of use, low maintenance, scalability, and grid responsiveness.
Internet connectivity and OCPP integration enable seamless operation, remote management, and compatibility with various back-office systems, while allowing customization with elegant color combinations.
Compact. High power. All-in-one.

- Dynamic power sharing
- 2 charging connectors:
  - 2 × CCS2, air-cooled or liquid-cooled cable up to 600A
  - (Optional) 1 × CHAdeMO, 200A
- Voltage range: 150–1000 Vdc
- OCPP integration
- Highly reliable and safe, robust and vandal-resistant
- Low maintenance, low energy consumption
- Easy to install and operate
- Compact and elegant Italian design
- Customizable for branding
- Scalable: 180 kW, 240 kW, and 400 kW

Connector	DC CCS2 (Plug B) – IEC 62196-3
Output voltage	150–1000 Vdc
Output current	2 × 400A air-cooled cables (500A for max. 15 min) • 2 × 600A liquid-cooled cables (cooling unit required)
Max output power	1 × 400 kW CCS2 or 2 × 200 kW CCS2 • (Optional) 1 × CCS2 300 kW + 1 × CHAdeMO 100 kW (200A)
Efficiency	93%–96.5% at load >10%
Power factor	>0.99 at 400 VAC and rated power (THD < 5%)
Protection and safety	Galvanic isolation of connectors, output short-circuit protection, overcurrent, reverse current protection, overvoltage, undervoltage, grounding monitoring, insulation monitoring, overtemperature protection (output power derating when internal temperature > 50°C)

Other common features					
AC input	400 VCA +/- 10% / three-phase + PE / 45-65 Hz				
	kW	Iac	Inrush current	Adc+Aac	Inrush current AC+DC
	180	308	362	344	397
	240	411	482	446	517
	400	685	802	720	838
Cable lengths	5 m				
User interface	7" color TFT LCD, touchscreen				
Authentication and payment	RFID reader ISO15693 + ISO14443 A/B, Mifare S50 / S70, Mifare Ultralight, NFC tags and compatible cards – (Optional) anonymous credit card payment terminal				
(Optional) Energy meter	DC energy meter with calibration certificates (Optional) MID / Eichrecht compliant (German calibration law compliant)				
Network connectivity	Ethernet 10/100 Base-T, Wi-Fi, GSM 3G/4G LTE CDMA, (optional) GPS				
Remote communication protocol	OCPP 1.6 JSON				
Operating temperature range	-25°C to +50°C (derating above 40°C ambient) / optional: -35°C to +50°C				
Storage temperature	-35°C to +60°C				
Relative humidity	5% to 95% (non-condensing)				
Protection rating	IP54 / IK10 (display IK8)				
Enclosure / Environment	Galvanized steel (anti-corrosion treatment and powder coating), suitable for indoor and outdoor use. Standard colors: white RAL 9016, grey RAL 7026 (side louver panels only), glossy finish				
Safety and electromagnetic compatibility	IEC 61851-1, IEC 61851-23, IEC 61851-21-2 Class A, IEC 62196-3, 2014/35/EU (CE), IEC 61439-2				
Dimensions (W × D × H) / Weight	807 × 760 × 1850 mm / approx. 800 kg				
LED indicators	2+1 vertical LED strips for charging status and illumination				
Options	Custom color combinations and logos / CHAdeMO certification / DC energy meters				

A1 9000 V2G



A1 9000 V2G
City Station DC 80/180kW

The SEED-V2G charging station is a dynamic solution for electric vehicles, designed to support Time Shift, Power Balancing, and Power Quality Support functions.
In DC to AC mode, it delivers up to 176 kW of power, with 440A @ 400 Vdc input from CCS or CHAdeMO electric vehicles with V2G capability. V2L functionality is available in off-grid mode.
Configurable up to 176 kW, it supports CCS Combo 2 and/or CHAdeMO, with current adjusted according to voltage: up to 440A at 400V (CCS and CHAdeMO) and up to 176A at 1000 Vdc (CCS only).Designed to meet the needs of users and operators, it prioritizes safety, ease of use, fast charging, low operating costs, reliability, reduced maintenance, low energy consumption, scalability, and efficient service.
Internet connectivity and OCPP integration ensure easy system integration and remote management. Customizable with logos and elegant color options, the SEED176-V2G combines innovation and efficiency.

- Energy flow from the AC grid to electric vehicles and back from vehicles to the AC grid
- Configurable single or dual output: CCS Combo (1 or 2) and CHAdeMO, (optional) 1 × AC Type 2, 22 kW
- AC DC output: power up to 132 kW, 440A @ 400V (440A @ 300 Vdc), 150–1000 Vdc
- DC AC output: 330A @ 400 Vdc DC input current (587A max @ 300 Vdc), power up to 176 kW, 265A AC, 260–530 Vac, 3ph+N, 45–65 Hz
- Power scalability: from 88 kW to 176 kW in 22 kW steps
- V2L – Vehicle to Load (off-grid mode)
- OCPP 1.6 integration
- Highly reliable and safe, robust and vandal-resistant
- Low maintenance, low energy consumption
- Facile da installare e da utilizzare

AC to DC mode	AC input	Input voltage and current		400/480 Vac, 3L+PE; 0–360A, 413A inrush current (cold start)
		Input voltage / frequency range		260 Vac ~ 530 Vac, 45 Hz ~ 65 Hz
		Power factor		≥ 0.99 at full load output power (50%–100%)
		THD		≤ 5% at full load output power (50%–100%)
	DC output	Rated power		176 kW
		Voltage and current range		150–1000 Vdc, 0–493A max @ 356 Vdc (0–440A max @ 300 Vdc)
		Voltage regulation accuracy		CHAdeMO: 150–500 Vdc, 200A
		Current regulation accuracy		< ±0.5%
		Efficiency (max)		≤ ±1% (output power from 20% to 100%)
AC to DC mode	DC input	DC input voltage and output power		≥ 96%
		Maximum input current		493A@356Vdc, (587max@300Vdc)
	AC output	AC output voltage and power		320–530 Vac: output power up to 176 kW; 260–320 Vac: output power linearly derated to 88 kW
		Rated power and current		176kVA / 266,4A
		AC output frequency		50 Hz/60 Hz
		THD		< 5%
		Output power factor		User adjustable range: 0.8 ~ 1, -0.8 ~ -1
		Efficiency (max)		≥ 96%
		Off-grid	Voltage accuracy and distortion	1% and < 3% // Off-grid supports 400 Vac only
			Power factor	> 0.7
			Dynamic voltage stability and recovery time	5% e 20mS
			AC voltage and current	380 Vac (non-adjustable), 3L+N+PE, 198A

Protection and safety	Overvoltage protection, output short-circuit protection, overcurrent, overvoltage, undervoltage, grounding monitoring, insulation monitoring, overtemperature protection
Cable types and lengths	CCS Combo 350A (450A peak for 15–20 minutes) and CHAdeMO 200A, 5 m cable
User interface	7" color TFT LCD, touchscreen
Authentication and payment	RFID reader ISO15693 + ISO14443 A/B, Mifare S50 / S70, Mifare Ultralight, NFC tags and compatible cards – (optional) anonymous credit card payment terminal
Network connectivity	Ethernet, 2G, 3G, 4G, EDGE, GPRS, GSM, LTE, UMTS, Wi-Fi (optional) GPS
Remote communication protocol	OCPP 1.6 Json
Operating temperature	--25°C to +50°C, derating when ambient temperature > 45°C (optional) -35°C to +50°C
Storage temperature	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)
Protection rating	IP54 / IK10 (display IK8)
Enclosure / Environment	Galvanized steel (anti-corrosion treatment and powder coating), suitable for indoor and outdoor use
Standards	IEC 15118, DIN 70121, IEC 15118-20 (Q1 2023), CHAdeMO 1.0
Safety and electromagnetic compatibility	IEC 61851-1, IEC 61851-23, IEC 61851-21-2 Class A (optional Class B), IEC 62196-3, 2014/35/EU (CE), IEC 61439-2
Dimensions (W × D × H) /max weight	mm 810 x 768 x 1850 / 480 kg
LED indicators	2+1 vertical LED strips for charging status and illumination (3+1 with optional AC Type 2))
Options	Custom color combinations, graphics and logos / CHAdeMO certification

A1Charge

V2G Tec




chnology
250KW
V2G
POWER CABINET
A1Charge

Accessories

Dynamic load management

By monitoring the load of household utilities, the accessory allows the car to be recharged at maximum power without exceeding consumption limits.

Multi-station power control

The automatable and easily programmable device enables intelligent load management for multi-station charging facilities.

Energy consumption monitoring

The accessory allows monitoring of energy consumption and by type of utilityv

Parking bay monitoring sensor - *Patent pending*

Wireless device that enables monitoring of the parking space where the charging station is installed. It detects improper use of parking bays reserved for electric vehicles during charging.
The system communicates seamlessly with the charging station, reporting any anomalies in real time.

Automatic electric vehicle recognition - *Patent pending*

An intelligent function that enables automatic matching between the appropriate charging station and the electric vehicle to be charged, allowing access to various services, including automatic payment.

V2G, V2H e Cybersecurity

Functionality for public and residential smart grids enabling intelligent bidirectional charging (according to IEC 15118 protocol).
Cybersecurity features for electric vehicle charging infrastructure, designed to comply with upcoming regulatory requirements.

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MOTOR VALLEY

A1Charge

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