

FULL OF POWER,READY TO GO





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# About us



As a leading comprehensive service provider of new energy in China, Shenzhen CEGN Co., Ltd. (CEGN) is dedicated to providing partners with core technologies and systematic solutions in such fields as NEVs charging, energy storage, PV energy storage and charging, energy management and service, etc.

Based on the listed company - Shenzhen CLOU Electronics Co. Ltd., CEGN was founded in April 2016. In 2022, CEGN finished the reform toward mixed system, and introduced the industry and strategic capitals from China Merchants Capital, Virtue Capital, CIC Deloitte and Huarui Intelligent Manufacturing. The diversified shareholder background and rich industry resources will further promote our sustainable and rapid development

Based on years of experience and technical strengths, CEGN has established a sound charging, and energy storage equipment and product system and built a smart energy cloud platform. With focus on charging operation and PV energy storage and charging energy management, it has created a unified Internet open platform of new energy power supply, grid, load and energy storage.

In the pursuit of comprehensive service development of new energy, CEGN will cooperate with more partners to shoulder the mission of “carbon neutrality” and forge the green and new energy era together.

# Our Scale



## Independent innovation technology

- 6 Pioneering industry projects
- 58 Participate in the formulation of standards
- 49 Software copyrights
- 95 Authorized patents



## Whole industry chain integration

R & D - production - Sales - charging operation - cloud platform



## High efficiency production line

- 4 production lines
- 16000 square meters factory area

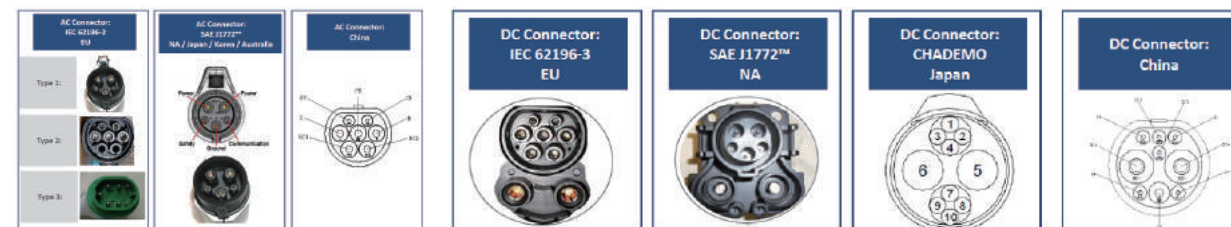


## Industry leading position

**No.6** in China according to the annual charging capacity.

**No.7** in China according to the number of charging piles.








\*Note: Data sourced from EVCIPA, 2022



# Smart Home AC Charger



## Features

-  7/11/22kW Compatible designs
-  Minimal size,streamline design
-  Home use with intelligent APP control
-  Smart charging and load balancing
-  High protection for complex environment
-  6mA DC residual current protection
-  Smart light information

## Applications










## Technical Specifications

Parameters	Model	CL5436-A07A /CL5436-A07B	CL5436-A11C	CL5436-A11A /CL5436-A11B	CL5436-A22A /CL5436-A22B
Input	Power supply	P+N+PE		3P+N+PE	
	Voltage	220~240VAC		380~415VAC	
	Current	32A	50A	16A	32A
	Frequency	50/60Hz			
Output	Voltage	220~240VAC		380~415VAC	
	Max current	32A	50A	16A	32A
	Rated power	7kW	11kW	11kW	22kW
	Charge plug	TYPE2/TYPE1	TYPE1	TYPE2	TYPE2
User interface	Cable length	3/5m (include connector)			
	Enclosure	ABS+PC(IMR technology)			
	LED indicator	Green/Yellow/Blue/Red			
	LCD display	4.3" color LCD (Optional)			
	RFID	Non-contact (ISO/IEC14443 A)			
	Start method	QR code/Card/BLE5.0/PnC			
	Communication	Interface	BLE5.0/RS485;Ethernet/4G/WiFi(Optional)		
Protocol		OCPP1.6J/2.0J(Optional)			
Safety	Energy Meter	Onboard Metering,Accuracy level 1.0			
	Emergency stop	Yes			
	RCD	30mA TypeA+6mA DC			
	EMC LEVEL	CLASS B			
	Protection grade	IP55 and IK08			
	Electrical protection	Over-current, Leakage, Short Circuit, Grounding, Lightning,Under-voltage, Over-voltage and Over-temperature			
	Certification	CE, CB, KC, AU			
Working environment	Standard	EN/IEC 61851-1,EN/IEC 61851-21-2			
	Installation	Wall mounted/Floor mounted (with column optional)			
	Temperature	-25°C~+55°C			
	Humidity	5%~95% (Non-condensing)			
Package	Altitude	≤2000m			
	Product size	218*109*404mm(W*D*H)			
	Package size	517*432*207mm(L*W*H)			
Net weight		3.6kg	4.5kg	4.0kg	5.0kg

# Smart Commercial AC Charger



## Features

-  11/22kW Compatible designs
-  Plug or socket connector type
-  Built-in AC meter (MID)
-  Built-in RCD (A+6)
-  High protection for complex environment
-  Smart charging and load balancing
-  OTA upgrade, Dialog and Troubleshooting

## Applications










## Technical Specifications

Parameters	Model	CL5435-A10A	CL5435-A21A	CL5435-A21B
Input	Power supply	3P+N+PE		
	Voltage	400VAC±15%		
	Current	16A	32A	32A
	Frequency	45/65Hz		
Output	Voltage	400VAC		
	Max current	16A	32A	32A
	Rated power	11kW	22kW	22kW
User interface	Charge plug	Type2	Type2	Type2 Socket
	Cable length	3m	5m	/
	Enclosure	Galvanized steel		
	LED indicator	Green/Yellow/Red		
	LCD display	3.5" color LCD(Optional)		
	RFID	Non-contact (ISO/IEC14443 A)		
Communication	Start method	QR code/Card/PnC		
	Interface	Ethernet;4G/WIFI(Optional)		
Safety	Protocol	OCPP1.6J		
	Energy Meter	Built-in AC meter (MID),Accuracy level 1.0		
	Emergency stop	Yes		
	RCD	Built-in 30mA TypeA+6mADC		
	EMC LEVEL	CLASS B		
	Protection grade	IP54 and IK10		
	Electrical Protection	Over-current, Leakage, Short Circuit, Grounding, Lightning, Under-voltage, Over-voltage and Over-temperature		
	Certification	CE, CB, UKCA, AU/NZ		
Working environment	Standard	EN/IEC 61851-1, IEC 61851-21-2		
	Installation	Wall mounted/ Floor mounted (with column optional)		
	Temperature	-25°C~50°C (with LCD); -30°C~50°C (without LCD)		
	Humidity	5%~95% (Non-condensing)		
Package	Altitude	≤2000m		
	Product size	320*173*490mm(W*D*H)		
	Package size	666*496*227mm(L*W*H)		
	Net weight	12.5kg	13.5kg	11kg

# DC20 EVSE



## Features

-  Smooth panel design, beautiful and generous
-  Temperature controlled fan speed, lower noise
-  Suitable for home and commercial use
-  Smart charging and load balancing
-  Super wide constant power output voltage
-  High protection for complex environment
-  Smart light information

## Applications

-  Home
-  Shopping Mall
-  Public Parking








## Technical Specifications

Parameters	Model	CL5870-A01D	CL5870-A01E
Input	Power supply	3P+N+PE	
	Voltage	400VAC±15%	
	Frequency	50 Hz/60Hz	
Output	Voltage	150~1000VDC	
		Constant power voltage : DC 300V-1000V	
	Max current	66A	
	Rated power	20kW	
User interface	Charge plug	CCS1	CCS2
	Cable length	5m (Optional)	
	Enclosure	Galvanized Steel	
	LED indicator	Green/Yellow/Red/Blue	
	LCD display	NO	
	RFID	Non-contact (ISO/IEC14443 A)	
	Start method	QR-code/ Card/ PnC	
	Communication	User Interface	Ethernet/4G(Optional)
Protocol		OCPP1.6J/2.0J(Optional)	
Electrical Performance	Efficiency	≥95% (Half load and above)	
	Power factor	≥0.99 (Rated load)	
	Voltage Accuracy	≤±0.5%	
	Current Accuracy	≤±1%	
Safety	Meter Accuracy	DC METER / On-Board Metering ;Accuracy Class 1.0	
	Emergency stop	Yes	
	Protection grade	IP54 and IK10	
	Electrical protection	Over-current, Leakage, Short Circuit, Grounding, Lightning, Under-voltage,Over-voltage and Over-temperature	
	Standard	EN/IEC 61851-1,EN/IEC 61851-23,IEC 61851-24,EN/IEC 61851-21-1	
Working environment	Installation	Wall mounted/ Floor mounted (with column optional)	
	Cooling	Forced air cooling	
	Working Temperature	-30°C~ + 50°C	
	Humidity	5%~95% RH, Non-condensing	
	Altitude	≤2000m	
Package	Product size	430*210*650mm (W*D*H)	
	Package size	916*646*408mm (L*W*H)	
	Net weight	35kg	

# DC30/40 EVSE



## Features

-  Super wide constant power output voltage
-  The most complete startup method
-  Suitable for home and commercial use
-  Multiple wireless communications
-  Emperature controlled fan speed, lower noise
-  Smart charging and load balancing
-  High protection for complex environment

## Applications

-  Home
-  Shopping Mall
-  Public Parking

## Technical Specifications








Parameters	Model	CL5871-A01A /	CL5871-A01C /
		CL5871-A01B	CL5871-A01D
Input	Power supply	3P+N+PE	
	Voltage	400VAC±15%	
	Frequency	50 Hz/60Hz	
Output	Voltage	150~1000VDC Constant power voltage : DC300V-1000V	
	Max current	133A	100A
	Rated power	40kW	30kW
	Charge plug	CCS2/CCS1	CCS2/CCS1
User interface	Cable length	5m (Optional)	
	Enclosure	Galvanized Steel	
	LED indicator	Green/Yellow/Red/Blue	
	LCD display	4.3" Color Touchable LCD	
	RFID	Non-contact (ISO/IEC14443 A)	
	Start method	QR-code/ BLE/Card/ PnC	
	Communication	User Interface	Ethernet/4G/WIFI/BLE5.0 (Optional)
Protocol		OCPP1.6J/2.0J(Optional)	
Electrical Performance	Efficiency	≥95% (Half load and above)	
	Power factor	≥0.98 (Rated load)	
	Voltage Accuracy	≤±0.5%	
	Current Accuracy	≤±1%	
Safety	Meter Accuracy	AC METER (MID, Optional) / DC METER; Accuracy class 1.0	
	Emergency stop	Yes	
	Protection grade	IP54 and IK10	
	Electrical protection	Over-current, Leakage, Short Circuit, Grounding, Lightning, Under-voltage,Over-voltage and Over-temperature	
	Certification	CE,CB	
	Standard	EN/IEC 61851-1,EN/IEC 61851-23,IEC 61851-24,EN/IEC 61851-21-1	
Working environment	Installation	Wall mounted/ Floor mounted (with column optional)	
	Cooling	Forced air cooling	
	Temperature	-30°C~+50°C	
	Humidity	5%~95% RH, Non-condensing	
	Altitude	≤2000m	
Package	Product size	650*230*730mm (W*D*H)	
	Package size	996*866*428mm (L*W*H)	
	Net weight	71kg	



# DC120 FastCharge EVSE



## Features

-  With 2 DC outputs, simultaneously charging
-  Wide voltage constant power output
-  Flexible power automatic group control function brings efficient charging
-  Smart charging and load balancing
-  Hardware level switch monitoring and interlock protection functions
-  Temperature control fan speed, lower noise
-  Charging module adopts the glue filling process

## Applications










## Technical Specifications

Parameters	Model	CL5890-B08
Input	Rated voltage	400VAC±10%
	Input cable	3P+N+PE
	Frequency	50/60Hz
Output	Output voltage	150~1000VDC Constant power voltage: DC300V-1000V
	Maximum current	200 A*2
	rated power	60kW/100kW/120kW
	Charge connector	CCS2/CCS1 (Dual plug)
User interface	Enclosure	Galvanized Steel
	LED indicator	Green/Yellow/Red
	LCD display	10" Color Touchable LCD
	RFID reader	Non-contact (ISO/IEC14443 A)
	Start mode	QR-code/ Card/ Password
	Emergency stop	Yes
Communication	Interface	Ethernet/WiFi/4G(Optional)
	Protocol	OCPP1.6J/2.0J(Optional)
Electrical performance	Efficiency	≥95% (Half load and above)
	Power factor	≥0.98 @ 50%~100% loading
	THD	≤5% @ 50%~100% loading
	Ripple factor	≤±0.5%
Safety	Energy meter	DC Meter, Accuracy level 1.0
	Protection grade	IP54 and IK10
	Electrical protection	Over current protection, Residual current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection
	Certification	CE; CB
	Standard	EN/IEC 61851-1, EN/IEC 61851-23, IEC 61851-24, EN/IEC 61851-21-1
	Work Environment	Cooling method
Work Environment	Installation	Floor mounted
	Temperature	-25°C~+50°C
	Humidity	5%~95% (Non-condensing)
	Altitude	≤2000m
Package	Product size	750*650*1800mm (W*D*H)
	Package size	896*826*2034mm (L*W*H)
	Net weight	350kg

# DC180 AC/DC FastCharge EVSE



## Features

-  With 2 DC outputs and 1 AC output, simultaneously charging
-  Wide voltage constant power output
-  Flexible power automatic group control function brings efficient charging
-  Smart charging and load balancing
-  Hardware level switch monitoring and interlock protection functions
-  Multi-standard plug: CCS2, CHAdeMO, GBT, Type2
-  Charging module adopts the glue filling process

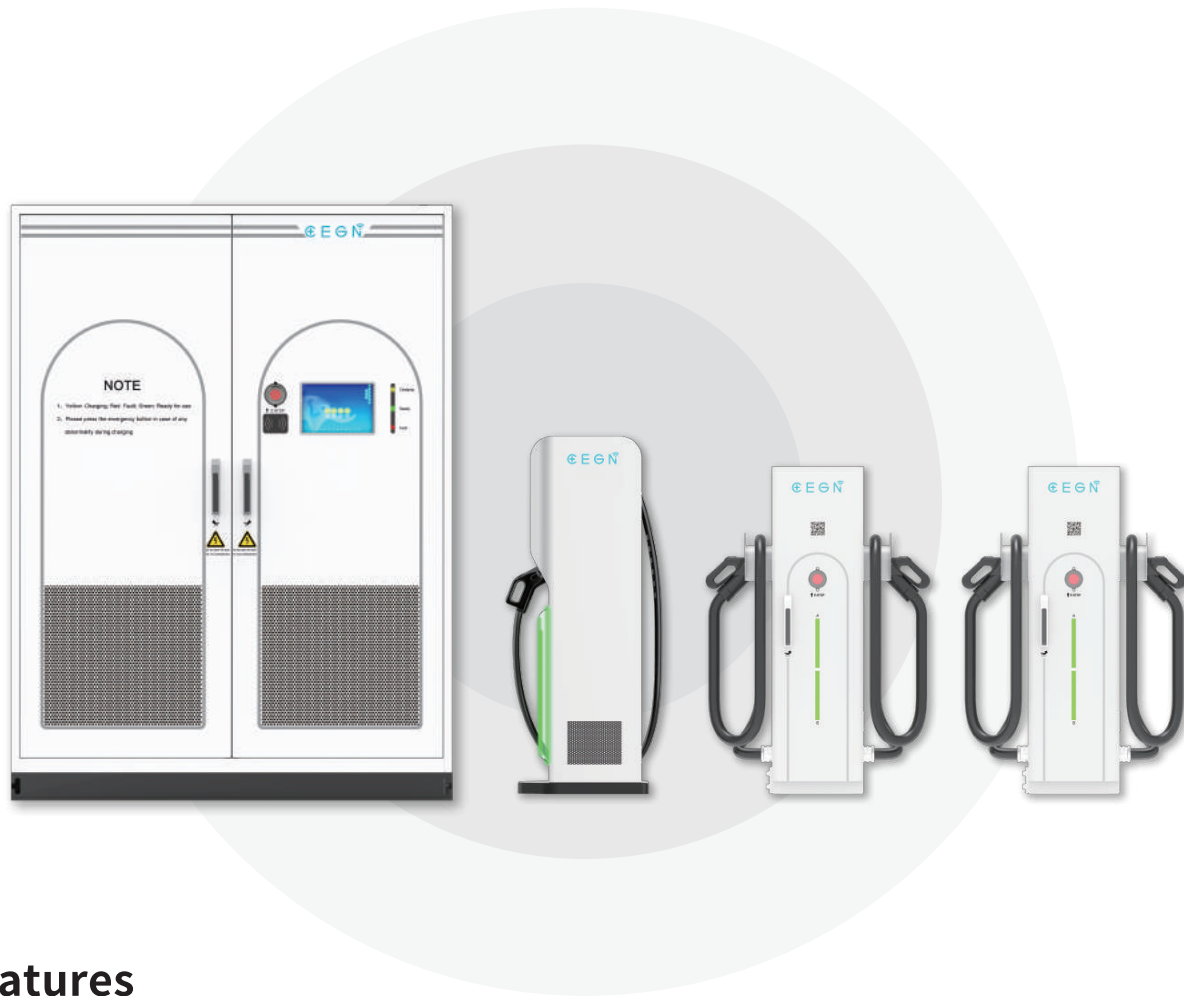
## Applications



## Technical Specifications

Parameters	Model	CL5830-C08A	CL5830-C08B	CL5830-C08C	CL5830-C08D	CL5830-C08E
Input	Power supply	3P+N+PE				
	Voltage	400VAC±10%				
	Max current	340A				
	Frequency	50/60Hz				
Output	Voltage	CCS2/GBT: 150~1000V CHAdeMO: 150~500V Type2: 360~440V Constant power voltage:300~1000VDC				
	Max current	CCS2: 200A CHAdeMO: 125A GBT: 250A Type2: 32A				
	Rated power	CCS2:60~180kW CHAdeMO:30/60kW GBT:60~180kW Type2:22kW				
User interface	Charge plug	CCS2+CHAdeMO+Type2	CCS2+CCS2+Type2	CCS2+CHAdeMO	CCS2+CCS2	CCS2+GBT
	Cable length	5 meter (Optional)				
	Enclosure	Galvanized Steel				
	LED indicator	Green/Yellow/Red				
	LCD display	7" Color Touchable LCD				
	RFID	Non-contact (ISO/IEC14443 A)				
	POS terminal	Optional				
	Start method	QR-code/Card/ Password				
Communication	Interface	Ethernet/4G				
	Protocol	OCPP1.6J/2.0J(Optional)				
Electrical Performance	Efficiency	≥95% (Half load and above)				
	Power factor	≥0.98 (Rated load)				
	Harmonic	≤5%( Half load and above)				
	Ripple coefficient	≤1% (Peak to peak)				
Safety	Energy Meter	AC METER(MID),DC METER(PTB optional); Accuracy level 1.0				
	Emergency stop	Yes				
	Protection grade	IP54 and IK10				
	Electrical protection	Over-current, Leakage, Short Circuit, Grounding, Lightning, Under-voltage,Over-voltage and Over-temperature				
	Certification	CE、CB、UKCA、AU、NZ				
	Standard	EN/IEC 61851-1,EN/IEC 61851-23,IEC 61851-24,EN/IEC 61851-21-1				
Working environment	Installation	Floor mounted				
	Cooling	Forced Fan cooling				
	Temperature	Working at -25°C~+50°C Storage at -40°C~+70°C				
	Humidity	5%~95% (Non-condensing)				
	Altitude	≤2000m				
Package	Product size	850*850*1800mm (W*D*H)				
	Package size	1186*966*2034mm(L*W*H)				
	Net weight	324kg	324kg	318kg	318kg	318kg

# DC360/480 SuperCharge EVSE



## Features

- One pile with 10 DC outputs can be charged simultaneously
- Flexible power automatic group control function brings efficient charging
- Hardware level switch monitoring and interlock protection functions
- Charging module adopts the glue filling process
- Wide voltage constant power output
- Flexible power automatic group control function brings efficient charging
- Multi-standard plug: CCS, CHAdeMO and GBT
- Temperature control fan speed, lower noise

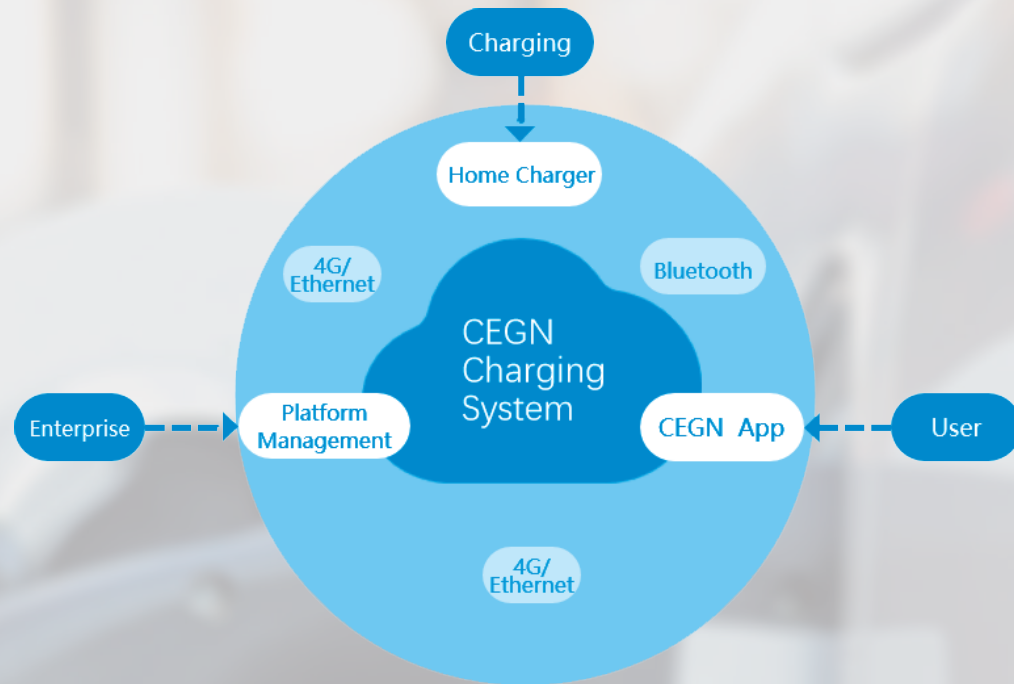
## Applications



## Technical Specifications

Parameters	Model	CL5823-E48
Input	Power supply	3P+N+PE
	Voltage	400VAC±10%
	Frequency	50/60Hz
Output	Voltage	CCS/GBT: 150~1000VDC; CHAdeMO: 150~500VDC; Constant power voltage: DC300V-1000V
	Max current	CCS Liquid-cooled plug :500A; CCS Natural cooling: 200A
	Rated power	360/480kW
	Charge plug	UP to 10 connectors of CCS\CHAdeMO\GBT
User interface	Cable length	Liquid-cooled:4m; Air cooled: 5m (Optional)
	Enclosure	Galvanized Steel
	LED indicator	Green/Yellow/Red
	LCD display	10" Color Touchable LCD
	RFID	Non-contact (ISO/IEC14443 A)
	POS terminal	Optional
	Start method	QR-code/Card/Password
	Communication	User Interface
Electrical Performance	Protocol	OCPP1.6J/2.0J(Optional)
	Efficiency	≥95% (Half load and above)
	Power factor	≥0.99 (Rated load)
	Voltage Accuracy	≤±0.5%
Safety	Current Accuracy	≤±1%
	Meter Accuracy	DC METER,Accuracy level 1.0
	Emergency stop	Yes
	Protection grade	IP54 and IK10
	Electrical protection	Over-current, Leakage, Short Circuit, Grounding, Lightning, Under-voltage,Over-voltage and Over-temperature
	Certification	CE certification in progress
	Standard	EN/IEC 61851-1,EN/IEC 61851-23,IEC 61851-24,EN/IEC 61851-21-1
	Working environment	Installation
Cooling		Forced air cooling
Temperature		-25°C~+50°C
Humidity		5%~95% (Non-condensing)
Altitude		≤2000m
Package	Product size (W*D*H)	PowerUnit:1600*900*2150mm; UserUnit: 510*200*1650mm(LiquidCooled);350*260*1250mm(AirCooled);
	Product size (L*W*H)	PowerUnit:1726*1246*2400mm; UserUnit: 891*466*1884mm(LiquidCooled);692*542*1476mm(AirCooled);
	Net weight	PowerUnit:700kg; UserUnit:72kg(LiquidCooled);85kg(AirCooled);

# CEGN Cloud



## CEGN Charging Cloud enclosure CEGN platform, CEGN App and home chargers into a loop.

- The system aims at residential charging management.
- Home chargers connect to CEGN App directly with Bluetooth in near field.
- Home chargers connect to CEGN platform with 4G / Ethernet.
- CEGN App gets specific charging information from CEGN platform.
- Users using CEGN App to control chargers remotely with network , or nearly with Bluetooth.
- Enterprises manage their chargers and get charging information with CEGN platform.

# CEGN Platform



Manage chargers and users from a single system with ease and efficiency. Monitor your entire charging network conveniently via a web browser. CEGN platform lets you track, manage charging sessions much more convenient and easier than before.



Data Statistics let you know the basic status of all of the charging information



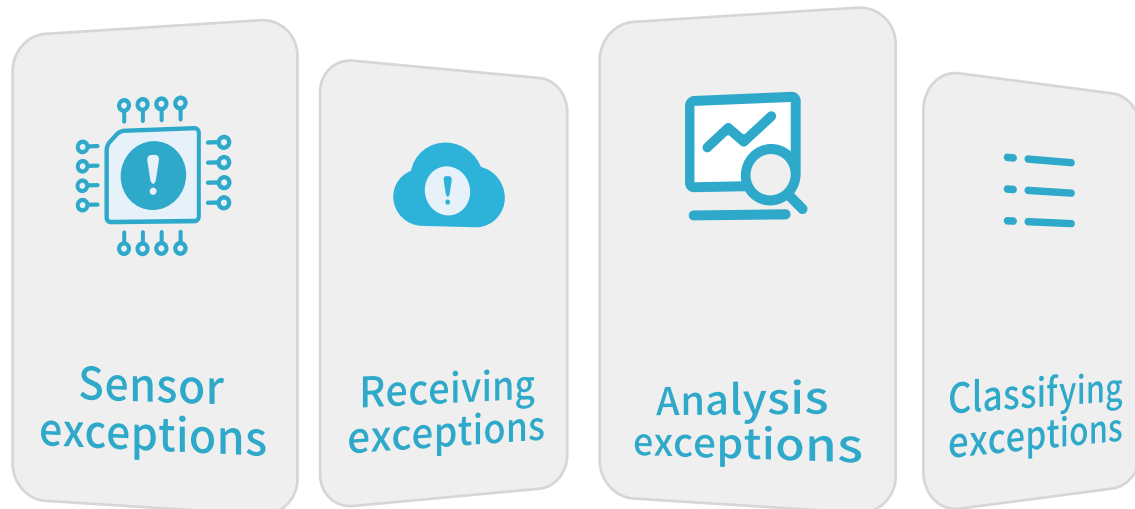
Charger states let you acknowledge the real-time state of every single chargers



Data trending lets you know how is everything going in an time view



Charger Records let you get the details of all the charging sessions



## CEGN Platform Managing Chargers -OTA

Chargers can stay the newest software version by upgrading through CEGN platform

For some unexpected and essential cases, developers would upload logs of chargers by platform.

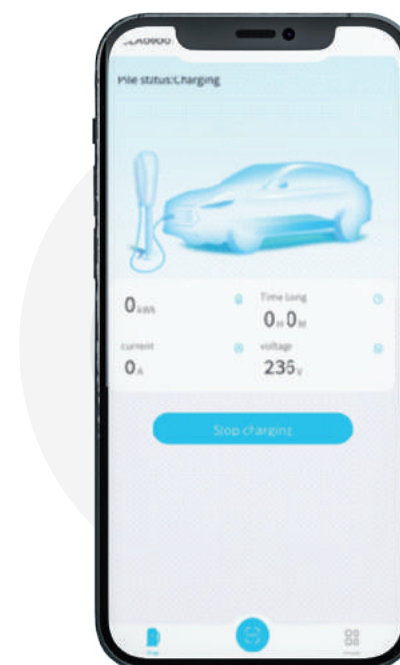
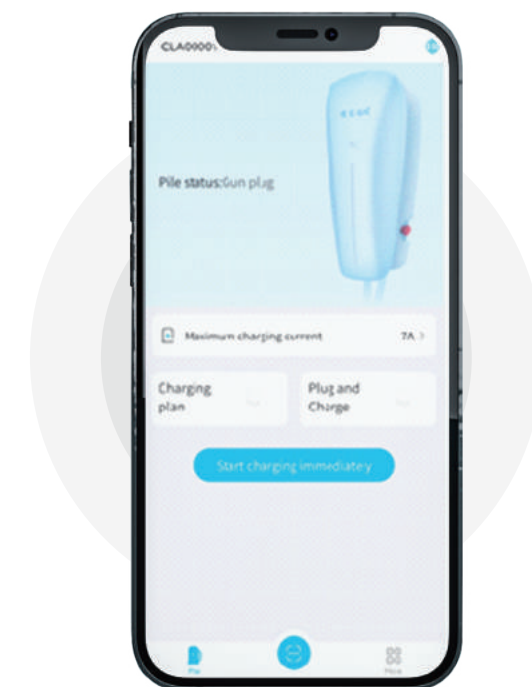
CEGN platform analyses the severity of exceptions and classifies by grade. For some exceptions would be repaired automatically

For some exceptions which requires hardware repairing would inform the aftermarket service to handle.

## CEGN Charging App

Make Home Charging More Convenient

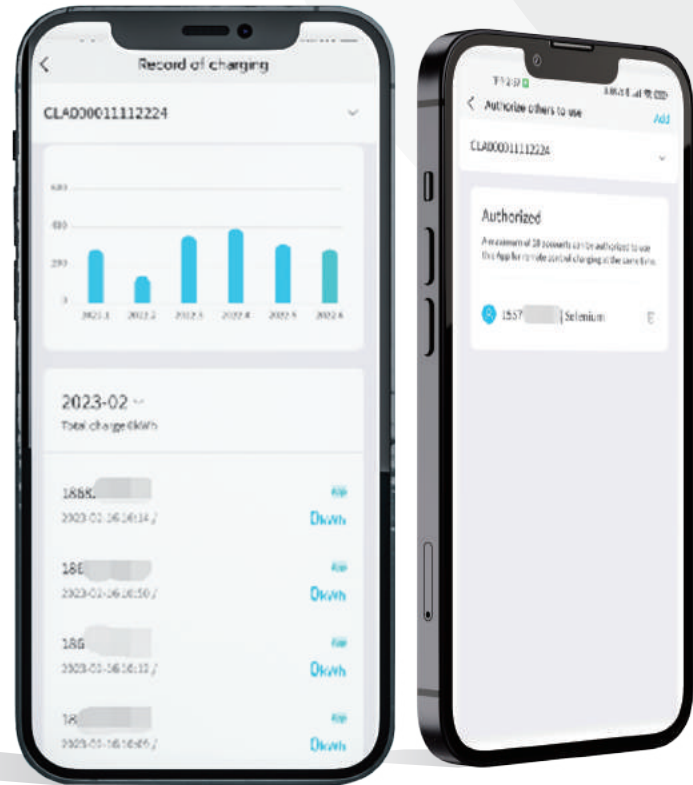
- Home charging the most convenient way to charge, allowing your customers to charge their EVs at home while they eat, play, and sleep.
- Start and stop charging sessions in the palm of your hand with the CEGN app.



- Get detailed real-time charging information.
- Schedule charging when it's cheapest.
- Configure Plug and Charge to charge without a card or app.

# CEGN Charging App

## Advanced charging settings



- Set the charging current to adapt home electricity power limits
- Visualize the trending of the energy consumption, also list every single charging session in details.
- Share chargers with others by authorizing them with CEGN App, so they can also control chargers remotely.

