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EV Charging Station

SCU provides complete solutions for electric vehicle charging infrastructure, energy storage, UPS, and data centers..

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https://www.scupower.com

Version：25.04-V1

SCU ELECTRIC VEHICLE CHARGING INFRASTRUCTURE OVERALL SOLUTION

Sicon Chat Union Electric Co., Ltd

ABOUT US

SICON Chat Union Electric Co., Ltd.(Abbreviation:SCU) Focuses on energy, power electronics and control technology, providing complete solutions for three major business areas:data center infrastructure,new energy vehicle charging, and green energy storage,offering sustainable energy and power management systems for global customers.

Corporate Vision

"Building Digital Energy for a Green Future"

Corporate Mission

"Making energy more sustainable, smarter and cleaner"

2003
established

2015
went public

500+
employees

PRODUCT SERIES

Charging Station

EVMS PRO

EVMS CLASSIC

EVMS BASE

EVMS WALLBOX

EVMS SATELLITE

EVMS ONE

POWER MODULE

V2G MODULE

CERTIFICATIONS

SCU is a certified charger vendor of OCA (Open Charge Alliance).
SCU Chargers are already compatible with complicated OCPP functions like Smart Charging with all 3 profiles, Composite Schedule, Whole Charger Reservation, Secured Connections etc.
SCU ensures to their clients that the implementation has been validated on conformance to the OCPP specifications by an approved independent test laboratory. Buyers of OCPP 1.6 compliant products can check which products are certified and are successfully tested for conformance to OCPP.
SCU has obtained TUV certification for all series of chargers.


OCPP 1.6
Full Certificate

Certificate holder: Sicon Chat Union Electric Co., Ltd
Certificate number: OCA.0016.0483.CS
Product type: Charging Station
Product designation: EVMS
OCPP Software version: 1.4.0
Hardware feature set as stated below
Certification date: August 29, 2023

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 – Edition 2 with OCPP 1.6 Errata sheet (v4.0 Release, 2019-10-23). The optional features of the protocol are also covered by this certification.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in the complete test report.

Applied tests	Performed by / at	Document evidence
Conformance testing according to the test specification referenced by the test report	DNV Singapore Pte. Ltd., August 29, 2023	DNV_OCPP 1.6 Test Report_CP_SCU

The abstract of test report in the Annex is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:
ONOPH CARON
Chairman

Authenticity of this certificate can be verified at www.openchargealliance.org


OCPP 1.6
Security Certificate

Certificate holder: Sicon Chat Union Electric Co., Ltd
Certificate number: OCA.0016.0483.CS
Product type: Charging Station
Product designation: EVMS
OCPP Software version: 1.4.0
Certification date: August 29, 2023

This certificate attests that the above mentioned product successfully completed security certification testing in conformance with the reference specification Security Whitepaper – Edition 3 (Improved security for OCPP 1.6-J v1.3, 2022-02-17). The security profiles of the protocol covered by this certificate can be found in the abstract of this certificate.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in the complete test report.

Applied tests	Performed by / at	Document evidence
Conformance testing according to the test specification referenced by the test report	DNV Singapore Pte. Ltd., August 29, 2023	DNV_OCPP 1.6 Test Report_CP_SCU

The abstract of test report in the Annex is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

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For the Open Charge Alliance:
ONOPH CARON
Chairman

Authenticity of this certificate can be verified at www.openchargealliance.org


ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE
No. B 104416 0004 Rev. 00

Holder of Certificate: Sicon Chat Union Electric Co., Ltd.
Bldg.14&15, No.319, Xiangjiang Street, High-Tech Zone
050035 Shijiazhuang
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: Electric vehicle charging station

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 64105180713101

Valid until: 2024-08-13

Date, 2019-08-14 (Frank Zhu)

Page 1 of 2
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

A4 / 07.17

Application:public operations such as highway rest stops, petrol stations, airport etc.. private operations such as EV dealers, EV fleets etc.

Compatible vehicles: BMW, Volkswagen, Porsche, Audi, Nissan, Mitsubishi, Peugeot, Citroen, Kia, Renault, OPEL, Fiat, Tesla, Smart, Mercedes Benz, BYD, Mazda, HONDA,Skoda, VOLVO, hyunori, JAGUAR , MorrisGarages, TataMotors, citroen, Mitsubishi, etc..

PRO Series Charging Station

The PRO Series Charging Station is able to charge all current and next generation vehicles with CCS, CHAdeMO and AC Type 2.
The power covers 80kW ~ 480kW, and can be configurable dual connectors to meet the changing charging needs of customers.

Overview

UPTO **480kW** HIGH POWER CHARGING

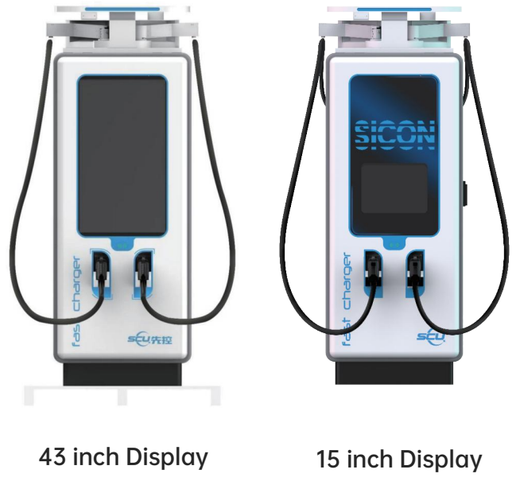
80kW to **480kW** DC

21"/34"/43" touchscreen display

97% overall efficiency

Max 760A charging current

150-1000V output voltage range



43 inch Display

15 inch Display

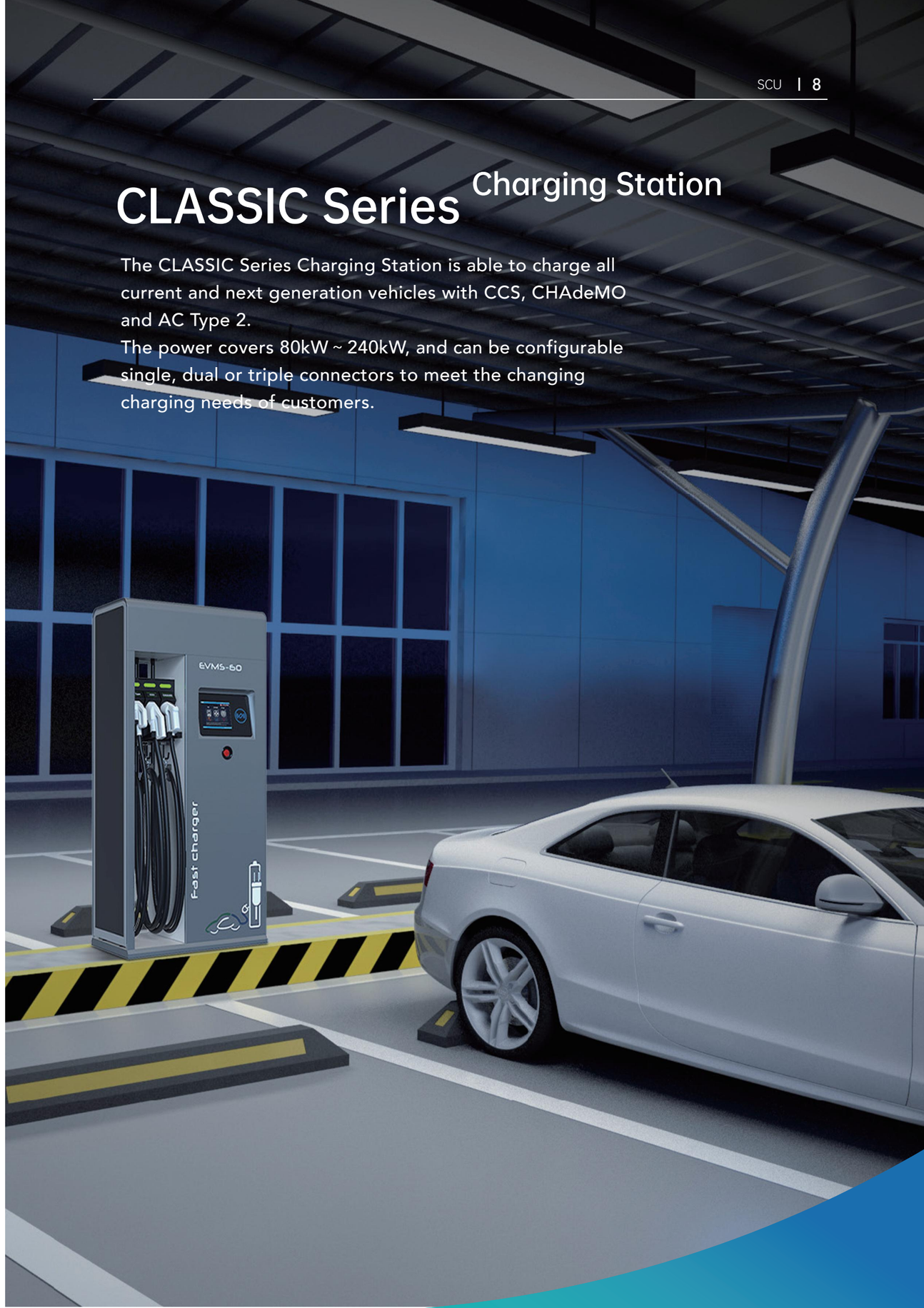
Features

- Comply with multiple standards as CCS2, CHAdeMO, NACS, GB/T
- Supports 2 DC Connectors to form charging station simultaneously
- Overall efficiency > 97-%
- The standby consumption is 0W for the power module and < 30W for the charger
- equipped with three-type controller that integrates communication, control and monitoring, and supports Contactless charging terminals (Nayax)
- Perfect cable management , suspended storage to prevent cables from touching the ground
- High Resoulation Touch Screen Display:15/21/32/43 inch
- Fully Compatible with OCPP Protocol
- Supports RFID, APP, Debit/Credit Card reader
- Low operational noise
- Supports Multiple Languages
- Customizable

Model	EVDS-80	EVDS-240
AC Input		
Power connection	3P+N+PE	
Voltage range	400VAC±20%	
Frequency	50/60Hz	
Nominal input current	115 A	364 A
Power	80 kW	240 kW
Power factor	> 0.997	
Overall efficiency	≥97%	
DC Output		
Voltage	50-1000VDC	
Constant power voltage	300-1000VDC	
Max Current	200 A	250 A
General Specifications		
Output mode	Multi-standard DC outputs (Mode-4), with AC (Mode-3)	
Connectors	CCS2，CCS1, CHAdeMO，GB/T，NACS, AC Type 2	
Display	15/21/34/43 inch（optional）	
RFID system	ISO/IEC14443A, Mifare；	
Network connection	4G | LAN | Wi-Fi(Auto Switching from LAN to 4G)	
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)	
Environment	Indoor / outdoor	
Operating temperature	-20°C ~ 70°C (-20°C ~ -35°C, heating required)	
Storage Temperature	-40 °C ~ +70 °C	
Operating humidity	≤95% non-condensing	
Altitude	Up to 2000 m	
Protection degree	IP55 ,IK10	
Acoustic noise	< 65 dB	
Compliance and safety	CE，EN61851，EN62196，DIN70121，ISO15118，OCPP 1.6 Full Certificate，OCPP 1.6 Security Certificate	

CLASSIC Series Charging Station

The CLASSIC Series Charging Station is able to charge all current and next generation vehicles with CCS, CHAdeMO and AC Type 2.
The power covers 80kW ~ 240kW, and can be configurable single, dual or triple connectors to meet the changing charging needs of customers.



Overview

Applications:
Highway rest stops, gas stations, airports, and other public operation sites; electric vehicle dealerships, electric vehicle fleets, and other private operation sites.

Compatible Vehicles:
Fully compatible with all major modern electric vehicles, including but not limited to: Tesla, BMW, Mercedes-Benz, Audi, Porsche, Volkswagen, BYD, NIO, XPENG, Li Auto, Volvo, Polestar, Hyundai, Kia, Nissan, Toyota, Honda, Mitsubishi, Peugeot, Citroën, Renault, Ford, General Motors (Chevrolet, Cadillac), Lucid, Rivian, Fisker, and more.

Features

- OCA Full+Security Certified
- Comply with multiple standards as CCS, CHAdeMO, NACS, AC Type 2
- Multiple outputs:DC power covers 80kW ~ 240kW,AC power up to 43kVA
- The standby consumption is 0W for the power module
- and < 30W for the charger
  equipped with three-type controller that integrates communication, control and monitoring, and supports Contactless charging terminals(Nayax)
- Supports CCS, CHAdeMO , NACS, and AC Type 2 charging outputs simultaneously
  Cloud based Remote Maintenance System
- Reliable, robust, modular system hardware
- Easy & fast Installation
  High Resoulation Touch Screen Display
- Fully Compatible with OCPP Protocol
  Supports RFID, APP, Debit/Credit card reader
- Low operational noise
- Supports Multiple Languages
  Customizable

Model	EVMS-60, EVMS-90, EVMS-120, EVMS-150, EVMS-180,EVMS-240
AC Input for the DC Output	
Power connection	3P + N + PE
Voltage range	400 Vac ± 20 %
Frequency	50 Hz or 60 Hz
Nominal input current & power	87A, 60KW / 130A,90KW / 174A,120kW / 217A,150kW / 260A,180kW
Power factor	> 0.997
Overall efficiency	97%(Power Module)，96.5%（System）
DC Output	
Voltage	50Vdc-1000Vdc
Max Current	200A(60kW) / 250A(200A optional)
Nominal Power	60kW / 90kW / 120kW / 150kW / 180kW
AC Output	
Voltage	400 VAC
Current	63 A(default) / 32 A(optional)
Nominal Power	43 kVA(default) / 22 kVA(optional)
General Specifications	
Output mode	Multi-standard DC outputs (Mode-4), with AC (Mode-3)
Connectors	CCS1, CCS2, CHAdeMO, NACS,AC Type 2
AC-Interface	TYPE 2 Plug 43KW（default） TYPE 2 Plug 22KW（optional） TYPE 2 Socket 22KW（optional）
Display	10.4" TFT Touch screen
RFID system	ISO/IEC14443A, Mifare;
Network connection	4G | LAN | Wi-Fi (Auto Switching from LAN to 4G)
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)
Environment	Indoor / outdoor
Operating temperature	-35℃ ~ 60℃(-35℃ ~ -20℃ heating required)
Storage Temperature	-40 °C to +70 °C
Operating humidity	≤95% non-condensing
Altitude	Up to 2000 m
Protection degree	IP55 , IK10
Acoustic noise	<65 dB
Compliance and safety	CE, IEC EN 61851, EN 62196,DIN 70121, ISO 15118, OCPP 1.6 Security Certificate
Size(W*D*H, mm)	dual 1150*625*2000; triple 1250*625*2000

BASE Series Charging Station

The BASE Series Charging Station is able to charge all current and next generation vehicles with CCS, CHAdeMO, NACS, and GB/T. Configured with DPM1000/40 charging modules, Built-in DSP in the charging module realizes intelligent management and digital control functions. Support RFID Card charging(Mobile app optional) ,and support reservation function.
The power covers 200kW~320kW, and can be configurable dual connectors to meet the changing charging needs of customers. Self-identifying electric vehicle BMS protocol function, mufti-models compatible charging.

Overview

Multiple Power Options: **120kW, 160kW, 240kW, 320kW, 480kW**

Wide Output Range: **DC output voltage: 50–750VDC / 50–1000VDC**
Constant power voltage range: 300–1000VDC

Unique Cooling Design: **Separate air ducts for hot and cold airflow**

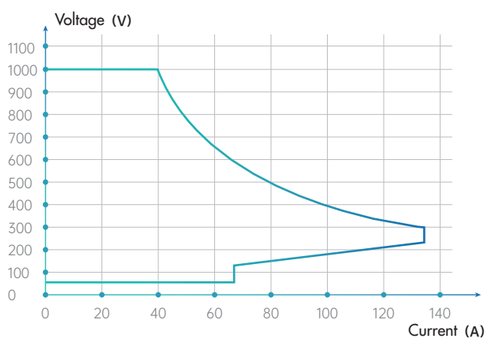
Dual-Gun Charging: **Supports simultaneous charging of one vehicle with two connectors**

Features

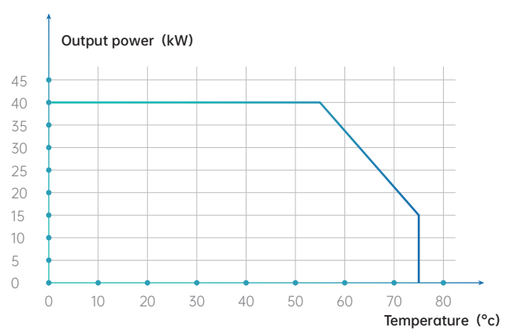
- OCA Full+Security Certified
- Comply with multiple standards as CCS, CHAdeMO, NACS, GB/T
- Multiple outputs: DC power covers 200kW~320kW, and 2 DC Connectors could be used simultaneously
- The standby consumption is 0W for the power module and < 30W for the charger
  equipped with three-type controller that integrates communication, control and monitoring, and supports contactless charging terminals(Nayax)
- Supports CCS, CHAdeMO, NACS, and GB/T, any one or two standards to form charging station
- Cloud based Remote Maintenance System
- Reliable, robust, modular system hardware
- Easy & fast Installation
- High Resoulation Touch Screen Display
- Fully Compatible with OCPP Protocol
- Supports RFID, APP, Debit/Credit Card reader
- Low operational noise
- Customizable
- Supports Multiple Languages

Model	EVDS-240	EVDS-320
AC Input for the DC Output		
Power connection	3P + N + PE	
Voltage range	400 Vac ± 20 %	
Frequency	50 Hz or 60 Hz	
Nominal input current	348A	462 A
Power factor	> 0.997	
Overall efficiency	97%(Power Module)，96.5%（System）	
DC Output		
Voltage	50 ~ 1000VDC	
Constant power voltage	300 ~ 1000VDC	
Max Current	250A(300A /400A optional)	
Nominal Power	120 ~ 240kW	160 ~ 320kW
General Specifications		
Output mode	Multi-standard DC outputs (Mode-4)	
Connectors	CCS1, CCS2, CHAdeMO, NACS, GB/T	
Display	10.4" TFT Color screen	
RFID system	ISO/IEC14443A, Mifare;	
Network connection	4G | LAN | Wi-Fi(Auto Switching from LAN to 4G)	
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)	
Environment	Indoor / outdoor	
Operating temperature	-35°C ~ 60°C (-20°C ~ -35°C, heating required)	
Storage Temperature	-40 °C ~ +70 °C	
Operating humidity	≤95% non-condensing	
Altitude	Up to 2000 m	
Protection degree	IP55 , IK10	
Acoustic noise	<65 dB	
Compliance and safety	CE, EN 61851, EN 62196,DIN 70121, ISO 15118, OCPP 1.6 Security Certificate	
Size(W*D*H, mm)	dual 1150*625*2000; triple 1250*625*2000	

Constant Power Curve



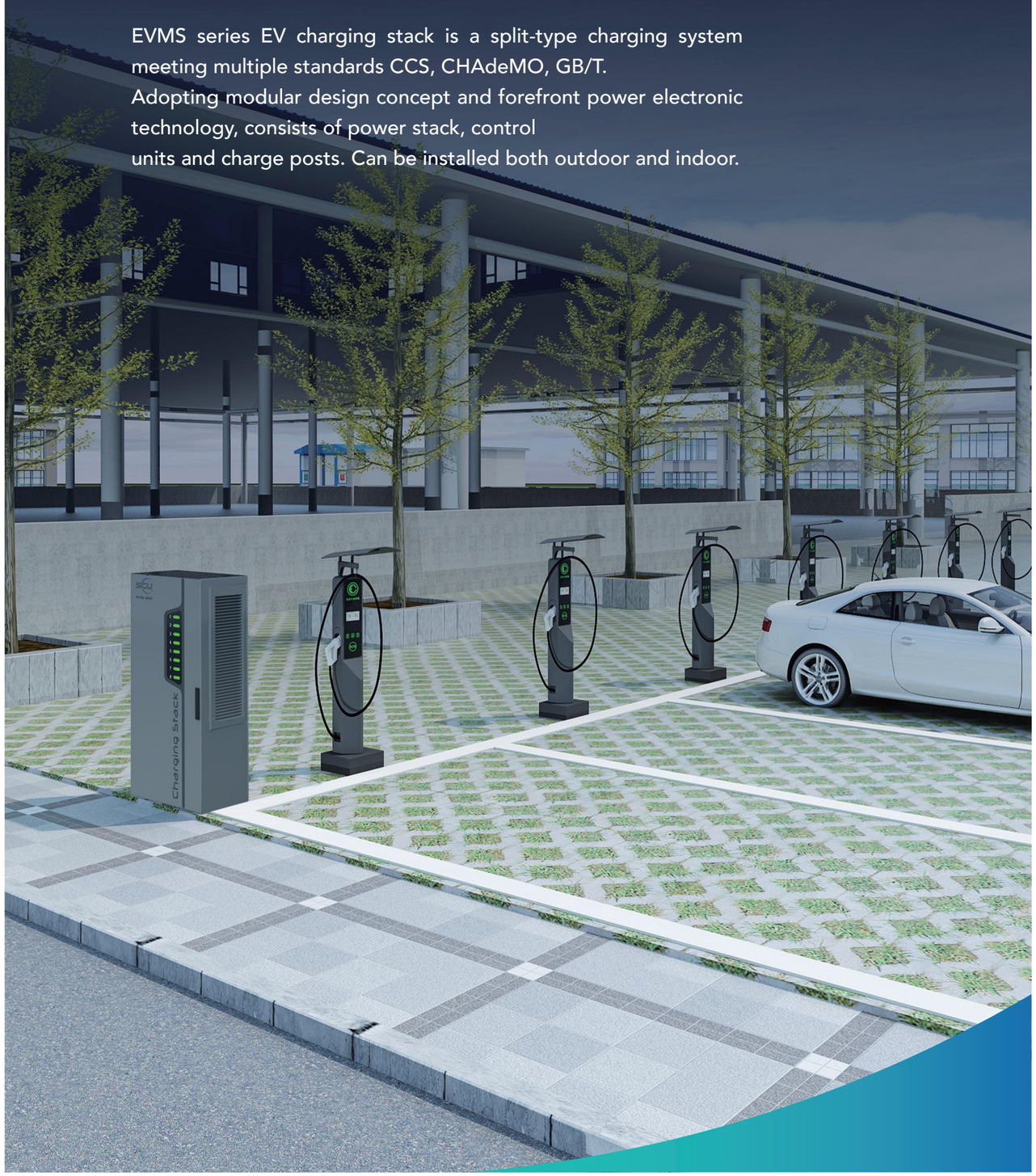
Constant Power Curve



Temperature Curve

EVMS Satellite EV Charging Solution (Power Stack+Dispenser)

EVMS series EV charging stack is a split-type charging system meeting multiple standards CCS, CHAdeMO, GB/T.
Adopting modular design concept and forefront power electronic technology, consists of power stack, control units and charge posts. Can be installed both outdoor and indoor.



Overview

Application: Parking lots and charging station where multiple DC charging service required.

Features

- Comply with CCS, CHAdeMO, NACS,GB/T; Output current 200A,250A,300A,400A or 500A (liquid-cooled).
- Flexible power distribution function, dynamically adjust output power according to the demand of electric vehicles.
- 21-inch display supports charging operation and advertising video playback at the same time.
- Supports Web & mobile based payment methods.
- Insulation monitoring function, automatically turn off output to ensure safe charging.
- High adaptability of temperature range, isolated heat dissipation air ducts, power heat dispassion is separated from control circuit to ensure dust-free control unit.
- High efficiency, high reliability, ultra low radiation, fast maintenance, flexible capacity expansion, energy efficiency and environmental protection.

	EVDS-240	EVDS-320	EVDS-480
Environment	Outdoor / Indoor		
System capacity	240kW	360kW	480kW
Maximum outlets	6	8	12
Output capacity of each route	0~120 kW or 0~120 kW	0~160 kW or 0~320 kW	0~240 kW or 0~480 kW
Input voltage	400VAC±20%		
Input voltage range	260V~530V (260V~304Vac, output power derating 50%)		
Current share precision	<3%		
Power factor	>0.997		
Working frequency	50/60HZ		
Output voltage	50Vdc-1000Vdc		
Current regulation accuracy	<1%		
Voltage regulation accuracy	<0.5%		
Current share precision	<3%		
Overall efficiency	97%(Power Module)，96.5%（System）		
BMS auxiliary power supply	12V/10A		
RFID system	ISO/IEC14443A, Mifare;		
Network connection	4G | LAN | Wi-Fi (Auto Switching from LAN to 4G)		
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)		
Operating temperature	-35℃ ~ 60℃(-20℃ ~ 35℃ heating required)		
Storage Temperature	-40°C ~ +70°C		
Operating humidity	≤95%，non-condensing		
Altitude	Up to 2000meters		
Protection degree	IP55，IK10		
Acoustic noise	< 65dB		
Compliance and safety	CE，IEC EN61851，EN62196，DIN70121，ISO15118, OCPP 1.6 Security Certificate		

EVMS DC Wallbox charger

The EVMS DC Wallbox charger is able to charge all current and next generation vehicles with CCS and CHAdeMO.
The 30kW charging station is a configurable single or dual outlet wall mounted DC fast charger, supporting the changing needs of each customer. With compact, space-saving and attractive design, it is ideal for a wide range of installations, both indoors and outdoors available.

Overview

Application:
Service station, Public corridor charging along the highways,
Commercial fleet operators, EV Infrastructure operators,
EV Garage and EVSE providers.

Features

- OCA Full+Security Certified
- DC power up to 30kW
- Supports a single Ccs1/CCS2/CHAdeMO/NACS connector
- Cloud based Remote Maintenance System
- Overall efficiency > 96.5%
- Easy & fast Installation
- High Resoulation Touch Screen Display
- Built-in safety measures
- Robust design
- Fully Compatible with OCPP Protocol
- Supports RFID, APP, Debit/Credit Card reader
- Low operational noise
- Supports Multiple Languages

Model	EVMS-30
System capacity	30kW
Input parameters	
Voltage	400Vac, 3P+N+PE
Voltage rage	304V~456Vac
Power factor	>0.997
Frequency	50/60Hz
Output parameters	
Output interface	Single output CCS1/CC2/ CHAdeMO/ NACS/ GB/T
Voltage	50 ~ 1000Vdc
Current	Maximum 100A, maximum 30kW
Power	30kW
Overall efficiency	97%(Power Module)，96.5%（System）
Other parameters	
Display	10.4" TFT Touch screen
RFID system	ISO/IEC14443A, Mifare;
Network connection	4G | LAN | Wi-Fi (Auto Switching from LAN to 4G)
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)
Operating temperature	-35℃ ~ 60℃(-20℃ ~ 35℃ heating required)
Storage Temperature	-40℃ ~ +70℃
Working Humidity	5%~95%，non-condensing
Operating humidity	≤95%，non-condensing
Altitude	Up to 2000meters
Protection	IP55，IK10
Use environment	outdoor/indoor
Acoustic noise	<55dB
Environment	outdoor/indoor
System protection	Leakage detection and protection ; Over-voltage and Under-voltage protection ; Self-checking recover ; Over-temperature protection ; Double Lightning protection; Emergency stop button protection ; Power failure data records.
Compliance and safety	CE，IEC EN61851，EN62196，DIN70121，ISO15118
Dimension(W*D*H)	460*345*735

EVMS-ONE SERIES
BATTERY ASSISTED EV CHARGER

The ONE Series is an innovative EV charging solution that integrates a lithium battery-based energy storage system (ESS) to support and enhance charging performance. By combining stored energy with grid power, it effectively manages energy flow, reducing the load on the grid during peak hours and ensuring reliable charging even in areas with limited power infrastructure.
This system is designed to deliver high charging power with lower grid dependency, making it ideal for applications where power availability is restricted or where energy costs fluctuate. Its sleek, compact form makes it a perfect fit for both commercial & industrial fleet.
Built with a modular, service-friendly architecture, the EVMS ONE Series ensures stable operation, easy installation, and flexible expansion options. Intelligent features like automatic plug detection and dynamic charging schedules streamline operation, improve energy utilization, and enhance the user's charging experience.

Features

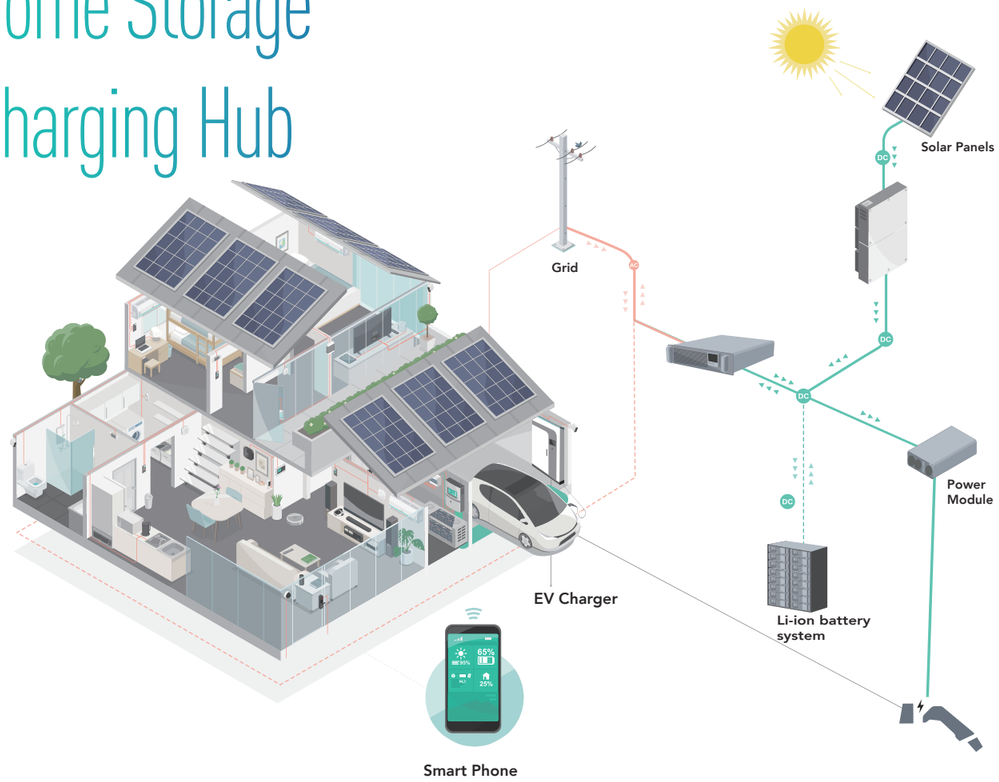
- **Space-Efficient and Quiet Operation：** Designed with a slim profile and minimal footprint, the charger fits seamlessly into tight parking environments. It ensures stable performance, straightforward user interaction, and ultra-low noise during operation.
- **High Output, Low Input Demand：** Delivers powerful charging performance even when the grid input is constrained, offering higher output capacity than many conventional superchargers in limited infrastructure scenarios.
- **Modular Battery Expansion：** Easily scalable with optional battery modules—expandable up to 2×76.8kWh. Smart internal architecture ensures optimal power allocation between modules for maximum efficiency.
- **Enhanced User Interaction：** Supports automatic connector detection and intelligent charging initiation. LED indicators provide clear, real-time feedback on charging status and battery levels, enhancing convenience and usability.
- **Smart Grid Integration with AI：** Combines on-site battery storage with limited grid supply to deliver output from 60kW up to 480kW. Equipped with an AI-powered system that integrates weather forecasting, dynamic pricing from aggregators, and advanced energy management protocols.
- **Future-Proof and Broad Compatibility：** Supports OCPP 1.6J protocol with upgradability to OCPP 2.0.1. Compatible with the vast majority of electric vehicles currently on the market, ensuring flexible and future-ready operation.

EVMS-ONE

EVMS-ONE +

Model		EVMS ONE	EVMS ONE+
Charging Function	Charging power	60 ~ 240kW	320 ~ 480kW
	Output voltage range	300 VDC–1,000 VDC	
		300 VDC–1,000 VDC	
	Maximum output current	250A	
	Output mode	2*CCS2 (NACS, GB/T, CHAdeMO optional)	
Mains Input	Cable length	5m	
	Input power supply	3-phase+N+PE	
	Power supply type	TN-S	
	Input frequency	50Hz	
	Input mains range	400V(± 10%)	
	PCS power	50kW	
Battery Parameters	BATT type	LFP	
	BATT voltage	768Vdc	
	BATT capacity	76.8kwh	2*76.8kwh
	BATT cabinet	1	2
	Discharge rate	3C	
	BATT lifecycle	25℃ 2C 80%DOD EOL80% ≥4000次	
Mechanical Data	Battery heat dissipation	Air conditioning cooling	
	System heat dissipation	Air-cooled cooling	
	Housing material	Sheet metal housing	
Advertisement Display	Dimension and resolution	43 inches, 2K (1920*1080)	
	Advertisement content update	Local USB, Ethernet update or remote update	
	Night mode	Automatic adjustment of monitor	
	UV resistance	Available	
User Interface	HMI	43 inch high-definition touch screen	
	RFID	Available (supporting M1 card)	
	Payment terminal	NAYAX	
General Data	Dimension (H*W*D, m)	2200*1000*1900	4400*1000*1900
	Total weight (t)	1.2	1.8
	Certification	IEC 61851-23, ISO 15118, DINspec70121, OCPP 1.6 Security Certificate	
	Protection type and degree	Charging system: IP54;Battery system: IP67; LCD screen: IK8;Payment terminal: IK8;	
	Operating temperature range	-20°C ~ +40°C	
	Communication protocol	OCPP 1.6J, developed up to OCPP 2.0.1	
	DC meter	MID integrated DC meter, with the meter exposed.	

Home Storage Charging Hub



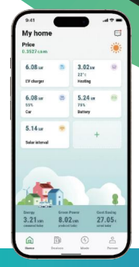
HECS is a complete system that stores solar energy to provide backup protection in case of grid failures. The system identifies power outages, supplies power to your home and electric vehicle with backup energy, and replenishes itself using sunlight to ensure your household appliances can remain operational for extended periods.

Benefit

- DC Coupling System
- Built-in PCS（15kW~25kW）, PV（15kW~25kW）, Battery storage（30kW·h~60kW·h）, EV charger（15kW~30kW）;
- Value: Liven up public and residential charging with customized solutions
- Flexible: OCPP, Wifi, Ethernet, 4G, RFID Reader
- Remote FW Upgrade & Monitoring System
- Standard: IEC 61851, ISO 15118-20
- APP: All home appliances can be accessed by App

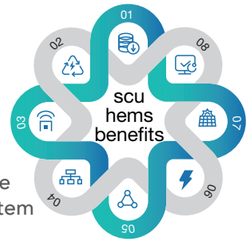
Home Energy Management System

HEMS integrates solar, battery storage, EV chargers and household appliances by controller into a single interface that can be monitored via a smart phone application, helping you optimize home energy costs, maximize green power consumption and connect your home to the grid.



SCU APP

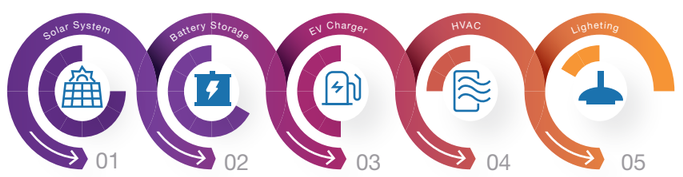
Reduce Electricity cost
Reliable energy supply
Remote control of load ang power
All home components are combined in a single system



Stabilize and clean the grid
Optimize the operation of home energy system
Participates in the electricity market
Maximize solar power self-consumption

- Smart Management: Monitor and control your solar inverter, battery storage, EV charger, and home appliances.
- Usage Overview: Track your energy performance in real-time and identify peak usage times for your home through usage data analysis.
- Automatic Mode: Our energy AI optimizes home energy usage automatically, minimizing grid costs for efficient utilization.

All home appliances can be accessed by your SCU APP

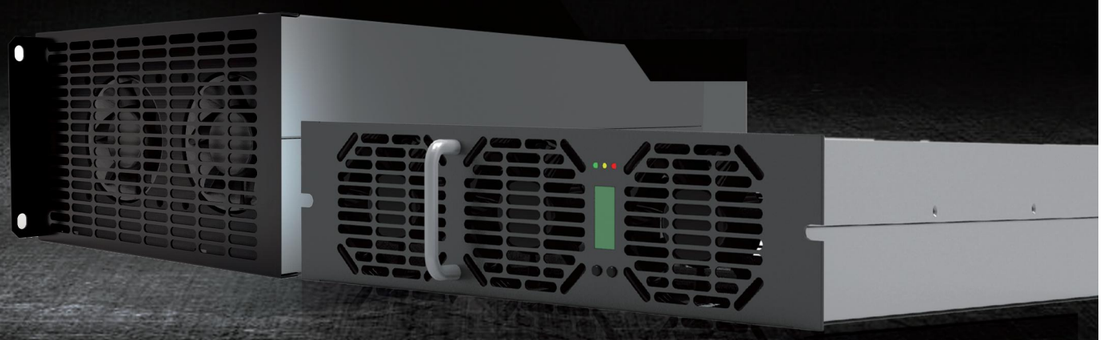


DPM Series Power Module
Efficient & Reliable Charging

SCU DPM Series charging module is a built-in power module designed for DC charging stations. It is available in two versions based on the input power type: AC-DC and DC-DC. The module comes in 30kW, 40kW, and 60kW power ratings.

The charging module converts different input power sources into DC power that can be used by electric vehicles, providing a reliable DC power supply for devices requiring direct current. It features a wide DC output voltage range, ensuring compatibility with different battery packs.

The module adopts three-phase active power factor correction (APFC) technology, interleaved three-level series resonance soft-switching technology, and digital control technology, offering high reliability, availability, maintainability, efficiency, and power density.



30kW/ 40kW AC-DC Power Module

DPM1000/30CII DPM1000/40C

Rated Power: 330kW/40kW
Input Voltage Range: 260Vac~480Vac
DC Output Voltage Range: 550Vdc~1000Vdc
Efficiency: 97.3%
Dimensions: 300 × 465 × 88 (W × D × H, mm)

60kW AC-DC Power Module

DPM1000/60C

Rated Power: 60kW
Input Voltage Range: 260Vac~480Vac
DC Output Voltage Range: 50Vdc~1000Vdc
Efficiency: 98%
Dimensions: 330 × 480 × 132 (W × D × H, mm)

Isolated DC-DC Power Module

IDDM1000/30CII

Rated Power: 330kW/60kW
DC Input Voltage Range: 627Vdc~865Vdc
DC Output Voltage Range: 50Vdc~1000Vdc
Efficiency: 98%
Dimensions: 300 × 465 × 88 (W × D × H, mm)

Features

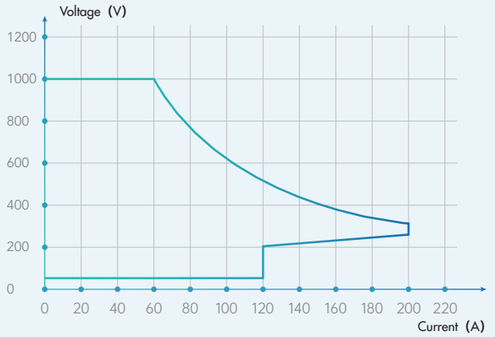
- Zero standby power consumption in both active and reactive power modes, reducing long-term energy costs.
- No AC contactor design lowers charger hardware cost and simplifies the system.
- Intelligent N+1 modular redundancy with flexible sleep/wake modes enhances fault tolerance and lifespan.
- Supports remote monitoring, control, and firmware upgrades without removing the module, making maintenance faster and easier
- Full SiC (silicon carbide) components ensure high-speed switching, low resistance, and high voltage endurance.
- Class B EMC design provides superior interference suppression and broad civilian application suitability.

Items	AC-DC Power Module	DC-DC Power Module
Model NO	DPM-1000/30 DPM-1000/40 DPM-1000/60	IDDM-1000/30
Output Power	30kW/40kW/60kW	30kW
Input Voltage	260Vac~480Vac(260~304VAC，output power deration 50%)	627Vdc ~ 865Vdc
Output Voltage	50-1000VDC	50-1000VDC
Constant Range (V)	300-1000VDC	300-1000VDC
Efficiency	97.3%	98%

Model		DPM-1000/30	DPM-1000/40	DPM-1000/60	IDDM-1000/30
Rated Power		30kW	40kW	60kW	30kW
Input	Voltage	380VAC Three Phase			627Vdc ~ 865Vdc
	Voltage Range	260V~480V（260~304VAC，output deration 50% ）			
	Frequency	50/60HZ			/
	Power Factor	> 0.99			/
Output	Efficiency	97.3%			98%
	Voltage	50VDC-1000VDC			
	Constant Range (V)	300-1000VDC			
	Flow Accuracy	< 0.5%			
	Stabilized Voltage Accuracy	< 0.5%			
	Peak to Peak Noise Voltage	< 1%			
Switch Overshoot Amplitude		< 1%			
Slow Start Time		≤ 5S			
EV Charging Mode		GB/T，CCS，NACS, CHAdeMO			
Cooling		Forced Air Cooling			
Working Temperature		-20℃ ~+60℃, derate to 60% of rated power at 50℃ ~60℃			
Relative Humidity		0~95%，40±2℃ Non-condensing			
Altitude		2000 m			
Size (W*D*H)mm		300*465*88	330*480*132		300*465*88

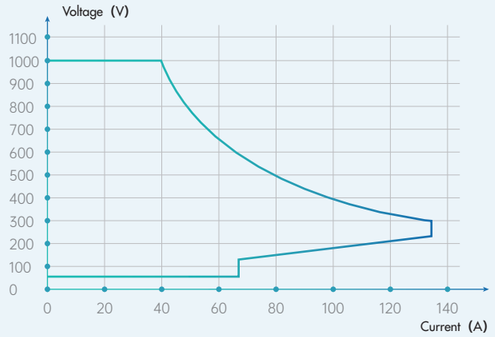
Constant Power Curve

DPM1000/60C



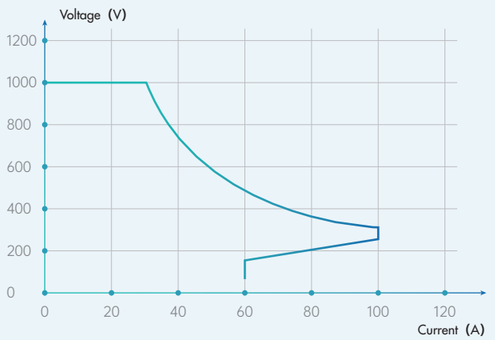
Constant Power Curve

DPM1000/40C



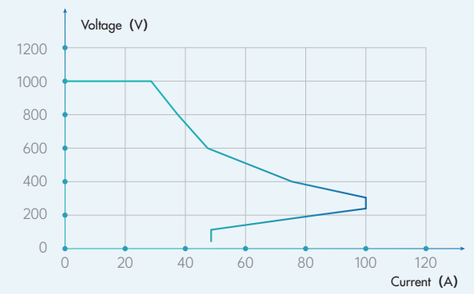
Constant Power Curve

DPM1000/30CII



Constant Power Curve

IDDM1000/30CII



Constant Power Curve

V2G MODULE

Application: Peak Shaving and Valley Filling for Grid; Energy Management Optimization; Emergency Backup Power Supply; Microgrid Solution, Advanced Charging Infrastructure.

Overview

The development of Vehicle-to-Grid (V2G) services significantly benefits the electric power system by facilitating the large-scale integration of renewable energy into the energy mix. A substantial portion of the value generated from the flexibility of electric vehicles (EVs) will be returned to end-users as rewards, conferring a competitive edge to this charging solution and offering a clear incentive for users to embrace it.

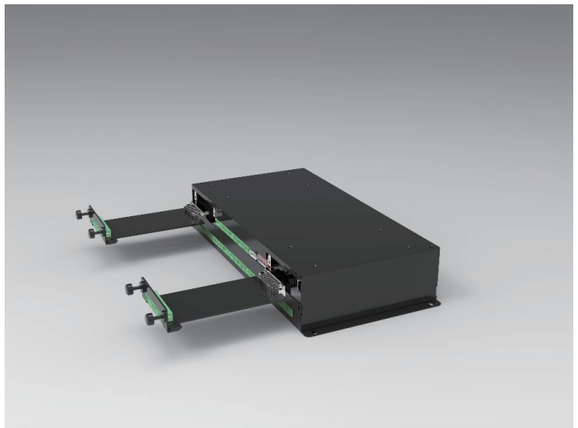
Feature

- Full high frequency isolation design to ensure safety between the battery and the grid/load
- Multiple levels of software and hardware overcurrent, overvoltage, overtemperature protection
- Dual DSP design, stable and reliable performance
- Supports module parallel and CAN communication
- Reliable parallel function, easy power expansion, up to 12 modules in parallel
- AC/DC adopts three-level technology, the max efficiency is 98%
- DC/DC adopts soft switching resonance technology, the max efficiency is 98%; With STS module.supports grid-connected to off-grid seamless switching
- Charging, inverter two functions, charge and discharge in one, low cost
- Covers multiple battery voltage levels of passenger cars (100V~750Vdc), and the battery voltage range is wide
- Supports 19-inch standard rack installation, compact structure
- Module hot swap design, flexible system configuration

Model		VTE500/7	VTE500/21
Charging			
Ac Side Parameter	Nominal voltage	220Vac (single-phase)	400Vac (three-phase)
	Voltage range	187Vac ~ 253Vac	340Vac ~ 460Vac
	Frequency	50 Hz or 60 Hz(Two modes of adaptive)	
	Input current	≤37.4 A	
	Power factor	≥0.99，Full load	
	Current share precision	<3%，Full load	
Battery Side Parameter	Output voltage	200 ~ 500Vdc	
	Nominal output current	35A	105A
	Nominal Power	7kW	21kW
	Charging efficiency	95%max (40% ~ 80% load)	
	Voltage regulation accuracy	±0.5%	
	Current regulation accuracy	±1%	
	Ripple coefficient	<1%	
Discharging			
Battery Side Parameter	Battery voltage range	200 ~ 500Vdc	
	Discharge current	35A Max	105A Max
Ac Side Parameter		V2G（Grid-connected discharge）	
	Voltage range	187Vac ~ 253Vac	340Vac ~ 460Vac
	Frequency	50/60±5% (50Hz/60Hz (Two modes of adaptive)	
	Output power	7kW	21kW
	Efficiency	95%max (40% ~ 80% load)	
Other Properties			
Protection Function		Overvoltage protection、Overcurrent protection、Short circuit protection、Overtemperature protection	
Other Parameter	Operating temperature	-25 ~ 60 ℃，Output power derates above 45 ° C	
	Storage Temperature	-40 ~ 75 ℃	
	Acoustic noise	<60dB	
	Cooling	Forced air cooling	
	Operating humidity	≤95% non-condensing	
Certification Standard		IEC 61851	

EVMS-CSU III SECC Charging Controller

The charge controller III utilizes a powerful CPU to integrate all charge control logic, data processing, function expansion, extended communication, and data analysis, providing a "heart" for charger ,so that charger can adapt to globally recognized standard charging guns (GB/T, CCS1, CCS2, Ac Type2, CHAdeMO, NACS).



Feature

- Multiple protocol interfacing functions: The product can interface with multiple large domestic operating
- platforms; interface with the international OCPP 1.6J (2.0) protocol operation platform; and achieve
- ISO15118PnC charging function.
- Compatible with multiple charging standards: GB/T、CCS1、CCS2、Ac Type2、CHAdeMO、NACS
- Powerful extended functions: It allows for extended functions including large-sized advertising screens,
- multi-channel communication, and charging terminals
- Independent CPU, efficient data processing and analysis capabilities
- Support multilingual systems from around the world.
- Compatible with multiple metering gauges
- Support remote communication, remote data maintenance, and remote fault handling for charging piles

Type III Charge Controller	
Model	Content
Charge mode	GB、CCS1、CCS2、Ac Type2、CHAdeMO、NACS
Input voltage	8 VDC–30 VDC (rated voltage: 12 VDC and 24 VDC)
Size (W*L*H, mm)	300*150*55
Interface	UART、RS232、CAN 2 （GB/T27930） Ethernet:10/100M(RJ45) USB:Mini-BType LVDS Analog sampling GPIO
Communication Protocols	OCPP1.6J (OCPP 2.0 upgradable)
Operating temperature	-40°C ~ +85°C
Compliance and safety	IEC61851, ISO15118, GB/T18487, GB/T27930, UL2202

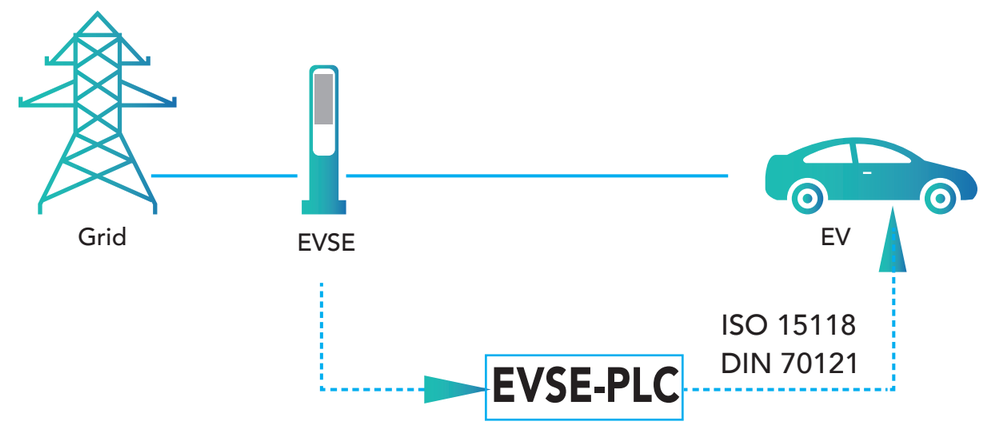
EVSE-PLC

EVSE-PLC is a PLC(Power Line Communication) based modem for communication between EV and EVSE. It is suitable for DC charging, and supports conversion of CAN, RS232/485 communication protocol to ISO/IEC 15118 and DIN 70121 standards. It can be installed inside CCS2 DC chargers to realize intelligent interconnection between EV and EVSE.

Feature

- Robust,portable and easy to be embedded inside EVSE and EV;
- ISO/IEC 15118, DIN 70121 compliant communication;
- RS232, RS485, CAN and Ethernet interface to power elcetronics;
- It can be used with EVSE, or to be installed in EV to realize the interconnection and communication between EVSE and EVs of different communication protocols;
- Short development cycle, quick docking between different EVSE and EV;
- Parralle support for multiple vehicles;
- Instantly handling of abnormal charging process;
- OTA upgrade compatible;
- TUV SUD certified.

Diagram



Renewable Energy Charging Station

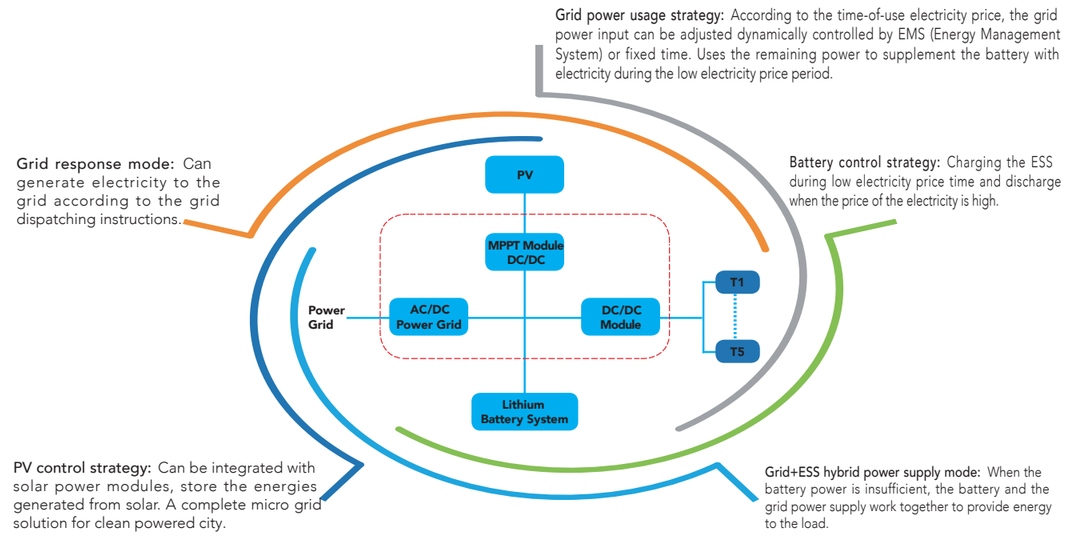
New Energy lintegrated Charging Station is combined with PV, energy storage battery, bidirectional converter and charging facilities,uses modular and standardized design concept,standard integrated charging overall solution achieves rapid and flexible deployment.

The interior of container is divided into equipment area and user resting area, the exterior of container is charging parking space,user can charge with charging terminal inserted.

Benefit

- Convenient operation, high reliability, high security, high integration, low cost, low energy consumption.
- The system supports grid-connected and off-grid operation,can be used as backup power supply.
- The system can access the cloud platform to achieve unified monitoring management.

Configuration



Model	EVMS-30	EVMS-30
AC parameters(grid-connected)		
Rated output power(kW)	50 ~ 250kW	100 ~ 500kW
Rated grid voltage(V)	3W+N,380	
Grid voltage range	-15%~+10%	
Rated grid frequency(hz)	50	
Grid frequency range(hz)	±2	
Total current waveform distortion rate	<3%(at rated power)	
Power factor adjustable range	-0.9~+0.9	
Overload capacity	≤105%：long-term operation;[105%，110%]:running time≥10min;＞110%:stop running	
Fast charger parameters		
System capacity	240KW	480KW
Output voltage	50VDC-1000VDC	
Constant power range	300V-500V&600V-1000V (500V-600VDerating output, the maximum output current is 50A)	
Voltage regulation accuracy	<1%	
Output ripple	<0.5%	
BMS auxiliary power	12V	
Standard DC charging terminal	250A*3	250A*5
Liquid-cooled DC charging terminal	500A*1	500A*1
Battery interface parameters		
Rated voltage	768VDC	
Voltage range	583V-777V (Corresponding battery cell voltage 2.7V-3.6V)	
Rated charging current	145A	290A
Maximum charging current	170A	340A
Rated discharge current	290A	506A
Maximum discharge current	343A	600A
PV access parameters		
PV access voltage range	200V-700V	
MPPT voltage range	200V-700V	
Suggested string format	500W*8*14 500W veneer 14 strings 8 parallels	
Maximum input current	135A	
Basic parameters		
Maximum efficiency	From grid power to the charging terminal is 96%	
Dimension(W*D*H)	800*1000*2000	1600*1000*2000
Protection class	Outdoor IP54	
Range of working temperature	-20～55℃(>45℃derating)	
Operating humidity(non-condensing)	0～95%	
Temperature control method	Intelligent air cooling(optional intelligent heating)	
Maximum working altitude(m)	4000(>2000 derating)	
Communication Interface	RS485、CAN、4G、LAN	

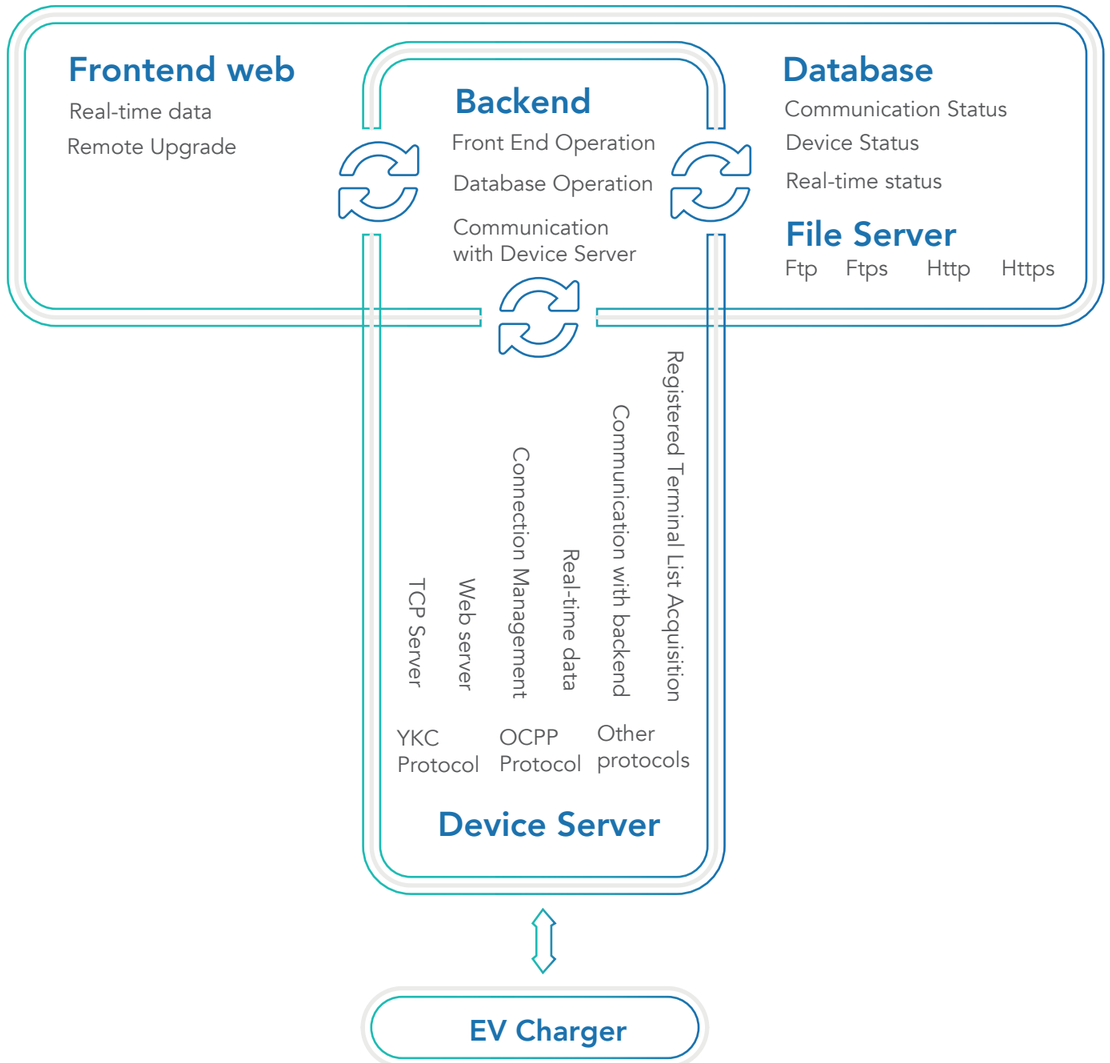
Remote Maintenance System

Overview

Client can take great advantage of using our Remote Maintenance System to access the charger remotely from anywhere in the world & save cost of deploying people to the sites.

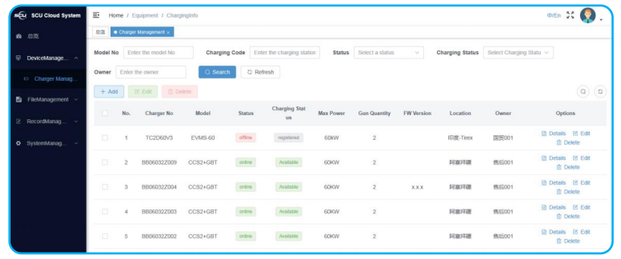
Real time monitoring of the charging status, power module status, change settings, downloading logs, Fw management etc.

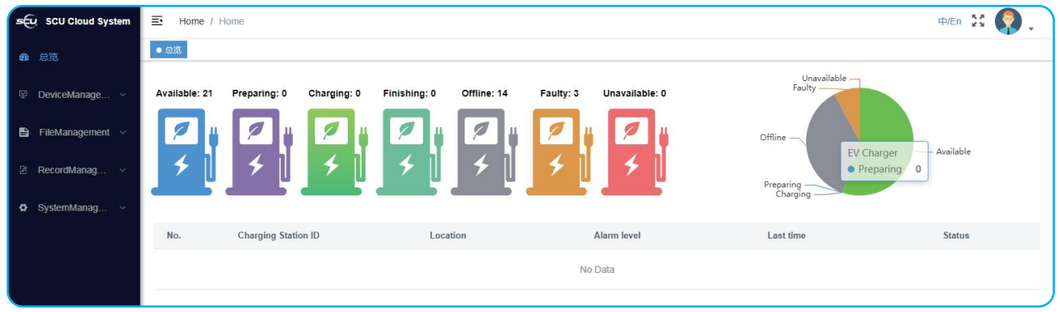
Remote Debugging functionality gives you remote access to the monitoring of real time communication data between the charger & EV.



The system identifies and protects data and system assets through three foundational dimensions of information security:

- **Confidentiality** Ensure that confidential information can only be accessed by authorized individuals;
- **Integrity** Ensure accuracy and credibility of information;
- **Availability** Ensure that information and systems are accessible and available when needed;





Real Time Monitoring

Clients are able to monitor the connector status, charging data, power module status, alarms etc. in real time. No need to download special software, any browser works

Change Configuration

Clients are able to change settings/ configuration of the charger according to their needs. This function comes very handy when any settings need to tweak and it has to be done remotely

Remote Debugging

This is a great feature we have implemented. Client can monitor all the communication between the charger and EV, communication between the charger & backend system. If any error occurs during operation, engineers can have real time monitor and solve it accordingly

CLASSIC CASE

01

02

03

04

05

06

01

AUDI Charging Hub
Country : Italy

Product : EVMS Satelitte & EVMS Classic Series

02

Public Transportation Project
Country : Israel

Product : EVMS Satelitte & EVMS Classic Series

03

SHELL Gas Station Project
Country: Bulgaria

Product : EVMS Satelitte Series

04

Commercial Charging Project
Country: Turkey

Product : EVMS Classic & Base Series

05

BMW Charging Hub
Country : Hong Kong (China)

Product : EVMS Classic & EVMS Wallbox Series

06

PTT OR Gas Station Project
Country: Thailand

Product : EVMS PRO & EVMS Classic Series