



EV

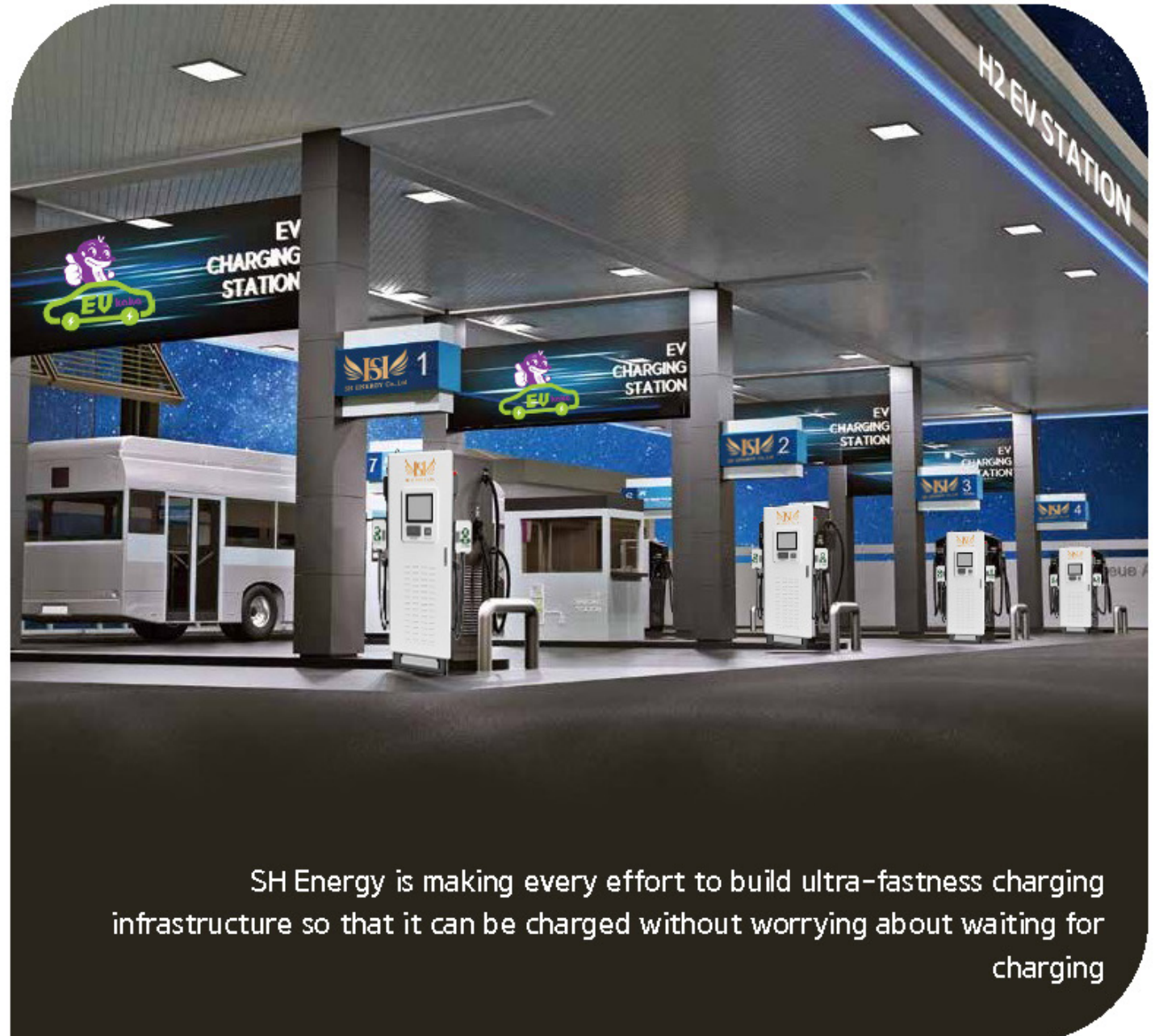
EV kaka

**Speedy Electric Motor Vehicle charging,
SH Energy takes the lead**

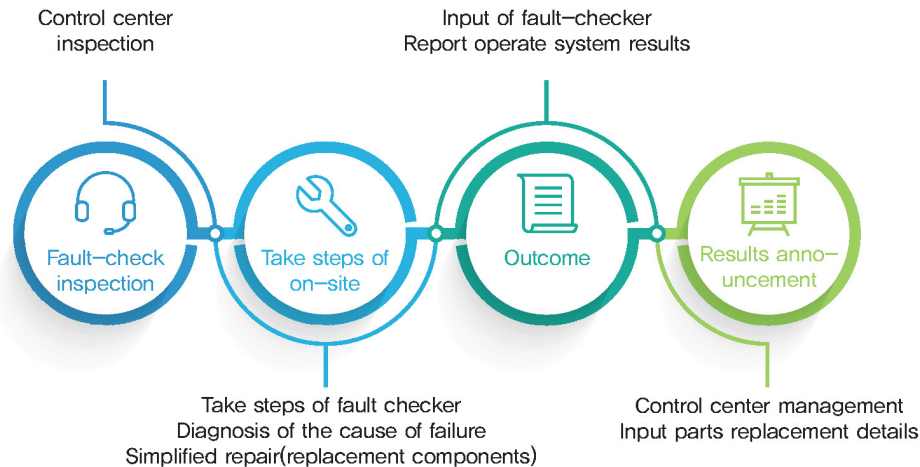
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Contents.

- DC FAST CHARGER 200kW
- DC FAST CHARGER 100kW
- DC FAST CHARGER 50kW
- AC CHARGER
- BUS CHARGER



EV kaka Business structure



Principles for on-site inspection progress by the following day after notice of fault-check instructions. Organize a fault inspection team to recover a circuit breaker, reset the charger on site, diagnose the cause of failure. Block off recurring failures through results announcement.

Electric Vehicle Charging facility

- Construct a charging Infrastructure for apartment houses,
- Private construction project
- Public charging infrastructure construction project
- Charger construction&maintenance

Private charging infrastructure

- Development&operation of various types of Biz models
- Evc membership Service business
- Conducting regular inspection through experts with technical skills and know-how
- Provide "One stop shopping" Service

Construct integrated platform

- EMS electrical network connected charging platform
- National network connected charging platform
- Renewable-Linked Charging construction business

Customer relations (telephone counseling)

- Operate call-center for charger construction&maintenance
- Operate integrated management system for charger install
- Build national network service
- **Customer relationships are open 24 hours a day.**



- 01 Hardware**
Contract conclusion of charger manufacturer supply
Component install and construction&maintenance
- 02 Software**
Real-time monitoring charging operation system roaming platform
Convenience to charger-users through the establishment of various payment system,
- 03 Service**
Provide regional A/S
Operate 24hours call-center&placement of person in charge
- 04 Set type of installing charging station**
Set type and location followed by concentration of electric Vehicles and population density
Select the suitable charger followed by charging environment and usage type
Installation safe charging station according to ministry of Environment's standard

Guide for electric vehicle charging facility construction process

“ Visiting&investigating and contracting **within 2 weeks** after installation inquiry “

1 Submit an application



Submit an application for quantity required for electric vehicle charging facilities under the amendment of the Eco-friendly Vehicle legislation

Applying Parking sides

Number of electric vehicle parking sides required to be installed

Number of charging station required

2 Adjusting the investigation schedule



Consultation on charging station for selecting the appropriate location for the installation of the charger

Suitable charger recommendation depending on charging circumstances and vehicle usage

Selection of leading-in ways&spaces and charger type

3 Construction of Electric Vehicle Charging Facility



Construct a safe charging station based on investigation following ministry of Environment's standards

The Korea Electric Power and rental service for safe constructing will be carried out by our corporation

(Additional fee for the KEPCO)

51, Eupcheon 2-gil, Jain-myeon, Gyeongsan-si, Gyeongsangbuk-do, Republic of Korea

SH Electric Vehicle Chargers Manufacturing factory



The **non-stop system** ensures the best quality and service.

NET-ZERO 2030 SH ENERGY

Inside factory



Outside factory



Gas station only

DC FAST CHARGER 200KW

Fully-charging time
15min~20min

(Charging time may has difference depending on the model of the electric vehicle.)

Sort		Detailed standards
rating	Type	Stand type
	Rated capacity	200kW
	Efficiency	More than 94%
	Product size	1065(W) X 1800(H) X 923(D)
specifications	Input	3Φ4W AC380V
	Output	DC 200 ~1000V, 100kW
	Degree of protection	IP44
Product name		SKS-F200K-100
Feature		2CH enables two vehicles to charge 100kw output at the same time Certification of KTL-U-22-33
User Certification		Approval of RF CARD&iC CARD





For export to Aisa

DC FAST CHARGER 100KW

Fully-charging time
40min

(Charging time may has difference depending on the model of the electric vehicle.)

	Detailed standards	Sort	Detailed standards
	Stand type	Type	Stand type
	100kW	Rated capacity	100kW
	More than 94%	Efficiency	More than 94%
	500(W) X 1650(H) X 700(D)	Product size	750(W) X 1670(H) X 252(D)
	3Φ4W AC380V	Input	3Φ4W AC380V
	DC 200 ~1000V, 100kW	Output	DC 200 ~1000V, 100kW
	IP44	Degree of protection	IP44
	SKS-F100K	Product name	SKS-F100K-50
	100kw output to 1CH and rapid charging	Feature	Thin design, suitable for narrow spaces
	Approval of RF CARD&IC CARD	User Certification	Approval of RF CARD&IC CARD
			

DC FAST CHARGER 50KW

 Fully-charging time
1hr 15min

(Charging time may has difference depending on the model of the electric vehicle.)

Sort		Detailed standards
rating	Type	Stand type
	Rated capacity	50kW
	Efficiency	More than 94%
	Product size	750(W) X 1114(H) X 252(D)
specifications	Input	3Φ4W AC380V
	Output	DC 200 ~1000V, 50kW
	Degree of protection	IP44
Product name		SKS-F50K
Feature		Thin design, suitable for narrow spaces
User Certification		Approval of RF CARD&IC CARD



DC FAST CHARGER 50KW / 100KW

(Charging time may has difference depending on the model of the electric vehicle,)

Fully-charging time
1hr 15min



High-speed battery charger (50kW 3Mode)	sort	High-speed battery charger (100Kw DC combo-only)
3Φ4W 380V	Input	3Φ4W 380V
DC 150~450V, 110A / AC 43KW	Output	DC 150~450V, 200/110A
DC 50kW / AC 43KW	Capacity	DC 100 / 50kW x 2EA
500(W) x 1662(H) x 700(D)	SIZE	925(W) x 1748(H) x 744(D)
JC-9933-TM2KD-3	Product name	JC-9932-100-821
AC3상 / DC CHADeMO / DC Combo 1	Charging socket	DC Combo 1
0	Payment terminal	0

Fully-charging time
40min



For export to America

AC CHARGER-Charger for family-use

Sort	Detailed standards
Leading-in	Monophasic type
Rated voltage	AC 220V solid bottom type SAE J1772 charging type
Capacity (kW)	7
Rated current (A)	0~32
Frequency (Hz)	60
Environmental condition	Altitude: below 1000 m above sea level ~25°C ~45°C / 20~95% (No dew condensation) NIPA Environmental test
Calibrating constant	2,000 (Pulse/kwh)
precision (Class)	1.0 degree precision
communication method	Wifi, LAN, PLC, Cat.M1
Applicable Specifications	IEC 62052-11, IEC 62053-21, KS C 1214

Fully-charging time
9hr



- The meter built in it to increase accuracy.
- Includes non-member confirmation.
- Local mode is available in case of charger communication disruption
- Charger can be stored member and charging information for a month.
- Service history server transmission is available during communication restoration.
- The built-in overload blocking system increases stability by detecting internal temperature, short circuit blocking, and real-time charging load.
- It is convenient for the use of various wireless communication.
- LCD and LED make it simplify to check the status.


How to check when not working

- ① Check the charger button
- ② Check the cable connection to the vehicle. (Check if it's not in the 'locked')
- ③ Please contact the contact information shown for charger A/S inquiries.

(Charging time may has difference depending on the model of the electric vehicle.)

For export to America

AC CHARGER–Public home charger


 Fully–charging time
9hr

(Charging time may has difference depending on the model of the electric vehicle,)

Sort		Detailed standards
rating	Type	Wall–attachment type
	Rated capacity	7kW
	Marks	2,000 (Pulse/kwh)
	Product size	136.5(W) X 245(H) X 48(D)
specifications	Input / Output	220V AC, 60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP54
Method of communication		Wifi, LAN, PLC, Cat.M1
Certification		IEC 62052–11, IEC 62053–21, KS C 1214
User Certification		Approval of RF CARD&IC CARD



AC CHARGER-Charger for family-use

 Fully-charging time
9hr


(Charging time may has difference depending on the model of the electric vehicle.)



Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	350(W) X 350(H) X 110(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44
Product name		SKS-SC-7A-H
Feature		An excellent square designed
User Certification		Approval of RF CARD

Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	180(W) X 250(H) X 80(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44
Product name		SKS-SC-7-H
Feature		Thin design, suitable for narrow spaces
User Certification		Approval of RF CARD

AC CHARGER-Public home charger

 Fully-charging time
9hr

(Charging time may have difference depending on the model of the electric vehicle.)




Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	240(W) X 350(H) X 142(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C(B), SAE J1772(5pin)
	Degree of protection	IP44
Product name		SKS-SC-7-C / SKS-SC-7-B
Certification		KC : YH07350-22001
User Certification		Approval of RF CARD

Possessing same design of 11kw charger

For export to Asia

AC CHARGER-Public home charger

 Fully-charging time
9hr

(Charging time may has difference depending on the model of the electric vehicle.)




Approval of IC CARD

Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	320(W) X 450(H) X 120(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44
Product name		AM-WBS-7-02
Certification		KC, KTL-U-21-02B
User Certification		Approval of RF CARD&IC CARD



AC CHARGER-Public home charger

 Fully-charging time
9hr


(Charging time may have difference depending on the model of the electric vehicle.)



Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	350(W) X 350(H) X 110(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44
Product name		SKS-SC-7A
Feature		An excellent square designed, and Possessing same design of 11kw charger
User Certification		Approval of RF CARD

Sort		Detailed standards
rating	Type	Wall-attachment type
	Rated capacity	7kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)
	Product size	180(W) X 250(H) X 80(D)
specifications	Input / Output	220V AC, 50~60Hz, 32A, Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44
Product name		SKS-SC-7
Feature		Thin design, suitable for narrow spaces, Possessing same design of 11kw charger
User Certification		Approval of RF CARD

AC CHARGER-Public home charger

 Fully-charging time
9hr

(Charging time may has difference depending on the model of the electric vehicle.)

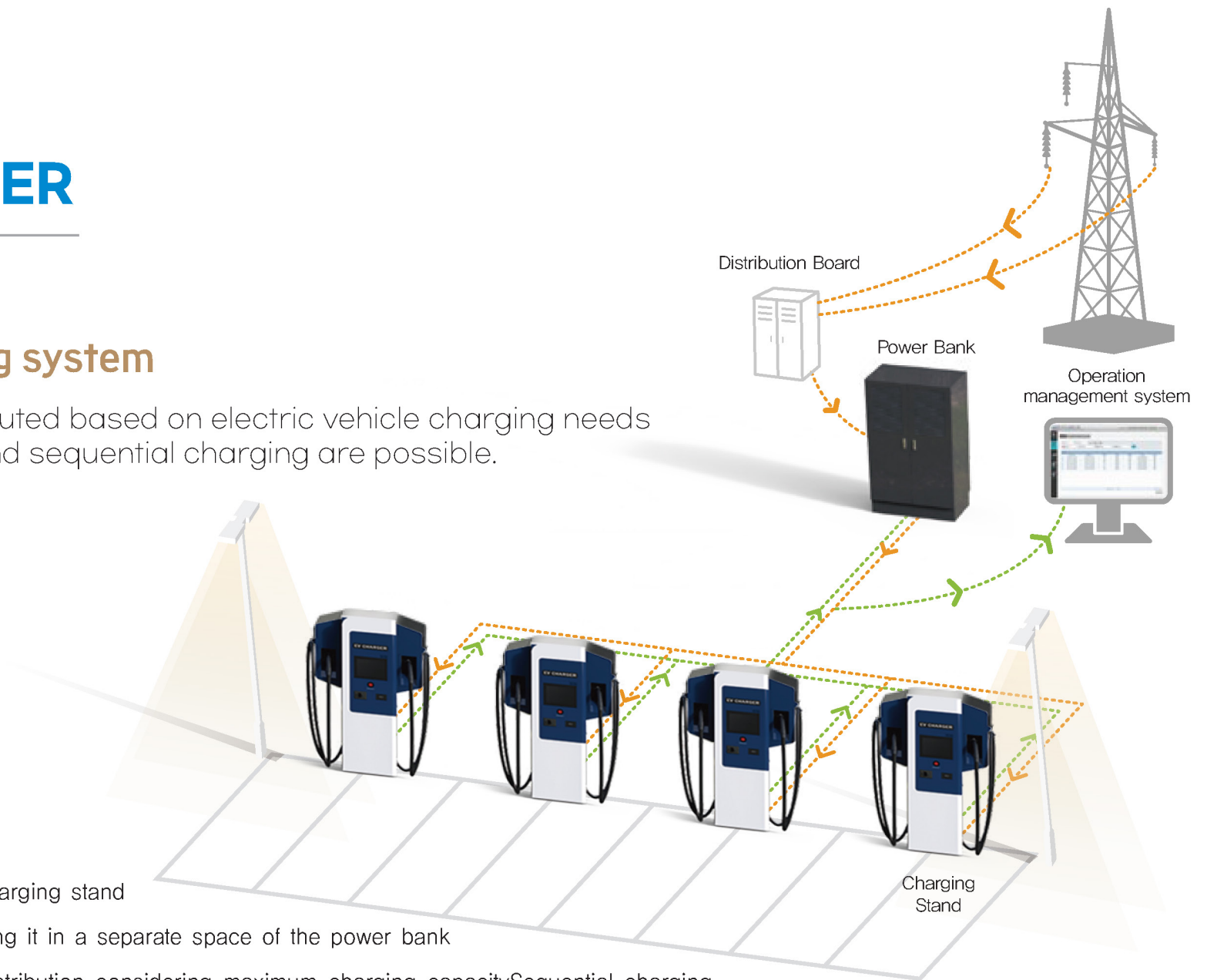
Sort		Detailed standards	Detailed standards
rating	Type	Stand type	Stand type
	Rated capacity	7kW	14kW
	Marks	Charging stand-by(blue), Charging(green), Error(red)	Charging stand-by(blue), Charging(green), Error(red)
	Product size	450(W) X 1600(H) X 300(D)	450(W) X 1600(H) X 300(D)
specifications	Input Output	220V AC, 50~60Hz, 32A, Monophasic type	220V AC, 50~60Hz, 64A, 14kW Monophasic type 220V AC, 50~60Hz, 32A, 7kW 2CH Monophasic type
	Charging type	TYPE C, SAE J1772(5pin)	TYPE C, SAE J1772(5pin)
	Degree of protection	IP44	IP44
Product name		SKS-SC-7-ST	SKS-SC-14-ST
Feature		An excellent square designed, and Possessing same design of 11kw charger	Stand type, No damage in demolishing&Possessing same design of 11kw charger
User Certification		Approval of RF CARD&IC CARD	Approval of RF CARD&IC CARD



BUS CHARGER

dispersed charging system

Electricity can be distributed based on electric vehicle charging needs
Automatic dispersion and sequential charging are possible.



Composed power bank and a charging stand

Maximize space utilization installing it in a separate space of the power bank

Selection of optimal electricity distribution considering maximum charging capacity
Sequential charging, simultaneous charging, operates with appropriate charging configuration



dispersed charging system to maximize maintenance efficiency, minimize noise and disruption

BUS CHARGER

Sort	Detailed standards
Type	Charging stand
Product name	JC-9642-150-0115
Type of charging	CCS Type 2
Input Output	AC220V, 60Hz, DC150~1000V 150~1000VDC, Max 200A, 150kW X 2CH
Efficiency/Power factor	More than 95%/More than 0.95%
Status appearance	12" LCD Touch (UI), LED (Charging status)
User approval	RF Card, Paid by credit card(option)
Environmental condition	IP54, Temperature: -25℃ ~ 50℃, Humidity: 20% ~ 95% (No dew condensation)
Product confirmation	KC mark/form confirmation
Safety function	Overvoltage, Overcurrent, Low voltage, Leakage current, Fusion protection, Connection
Size	500(W) X 1750(H) X 450(D)



BUS CHARGER / HIGH POWER CHATER

	Electric bus charging system (240kW, 300kW)	Sort	Dual high-speed charger 350kW	
	AC220V, DC 150~1000V	Input	220VAC ± 10%, DC 1000V	
	Max 200A, 120kW x 2CH 150kW x 2CH	Output	Max 200A [100kW] / Max 500A [350kW] Different maximum output when charging simultaneously	
500(W) x 1750(H) x 450(D)	SIZE	600 X 400 X 2200 (mm)		

Thank you.

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