ecarPlug
이카플러그

Anytime · Anywhere · Anyone

Easy to use the EV Charging Infrastructure

ecarPlug 이카플러그

ecarPlug Co. Ltd. focuses on electric vehicle charging system and related businesses based on ICT technology including slow/fast charging devices. Our main products are 7kW / 14kW, 11kW / 22kW AC Chargers, 30kW / 50kW / 100kW DC Chargers certified by Korean government Institute and has got CE mark.

Recently 200kW DC Fast Charger and Mobile Charger are developed and released. evRang electric vehicle charger is the world first new concept model that controls, measures, and pays through Smartphone. We cooperate global electric vehicle manufacturers, EV charging service providers, and Korean Government, the Ministry of Environment, as an official service provider.

We, ecarPlug will contribute to growth of Electric vehicle market and the related industry by introducing new concepts of electric charging and management service/system continuously based on our top notch ICT capability in the future.

Company Profile

2023
- Certified as an export frontier company
- CE certified for slow and fast chargers
- Establishment of smart ev charger production plant

2022
- Supply Agreement and Export of “Slow Charger” to the United States
- Designated of leading industrial convergence companies and industrial convergence innovation items(Ministry of Industry)
- Acquired Certifications for high-efficiency energy equipment for DC EV Chargers

2021
- Acquired Green Technology Certificate
- Selected of Management Innovation Small and Medium Business(Main-Biz)
- Signed a Contract for establishing a local subsidiary in India

2020
- Selected as “Inno-Biz” by Ministry of SMEs and Startups
- Opened a German branch in Frankfurt
- Opened a High-speed EV Charging Station(West Gong-ju IC Restaurant, Myoung-Shin Inc.)

2019
2018
- Exported EVSE(initial samples) to the United States and India
- Registered as an electric vehicle charging point operator(CPO) in korea
- Registered as a partner to the POSCO E&C(Engineering & Construction)
- Register of new electric service provider
- Attended 2019CES(Las Vegas, USA)
- Registered as a leading industrial convergence item and leading company in 2018

2017
2016
- Acquired Green Technology Certification
- Licensed for electric construction business
- Certified for Venture Company
- Awarded 2016 Industrial Convergence Achievement Award
  Winner of the Ministry of Trade, Industry and Energy
- Awarded 2016 Korean Best Technology Award
  Winner of Minister of Trade, Industry and Energy
- Registered for ecarPlug owned R&D institute

2015
- Signed MOU with Seoul Metropolitan Government to establish charging infrastructure
- Established ecarPlug Co., Ltd.

Business Information

EV Charger Development & Manufacturing

- Fast Charger • Slow Charger
- Portable Charger
- Street light Pole Mounted Charger
- Wall-Mounted Type Charger

EV Charger Installation Business

Installation of EV Chargers •
Electrical Cabling & Piping Work •

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Charging Service Business

- Development of Charging Service management Platform
- Consignment Operation Business for EV Charger Operation & Management
- EV Charging Service
- EV Charging with ESS

Software Development

Firmware for EV Chargers •
Mobile Applications(App) • for EV Chargers
EV Charging Payment System •
Development of EV Charge • Management Platform

Patent /Certification

[Authentication]

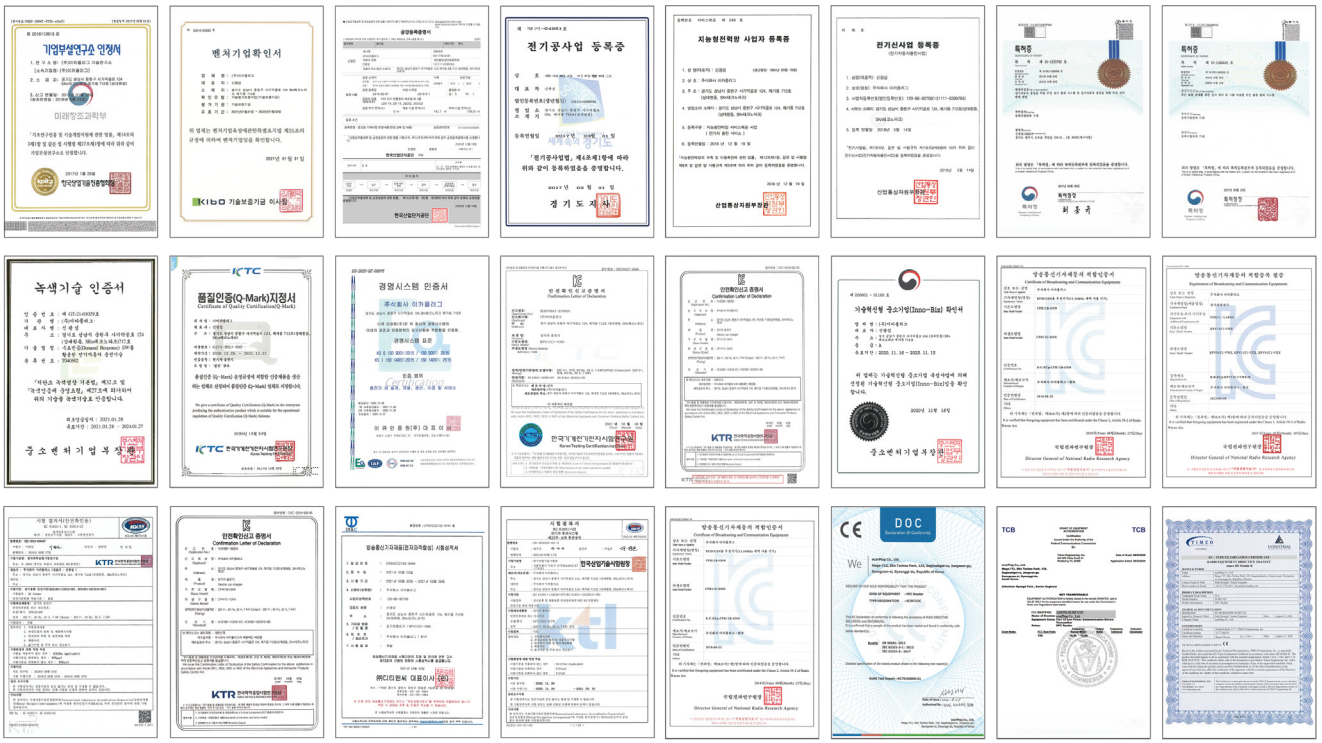
- Venture Business Certificate
- Electrical Work Certificate
- CPO(Charging Point Operator) Certificate
- Factory Registration Certificate
- Smart Grid Certificate
- Green Technology Certificate
- Quality Certificate
- Risk Assessment Certificate
- KC Certificate
- Certificate of conformity for Broadcasting Communication
- Electromagnetic Compatibility Certificate
- Wireless Electromagnetic Compatibility Certificate
- CE, UL, RoHS Certificate
- ISO Authentication Certification
- Inno-Biz Certification and others

[Patent]

- Earth Leakage Breaker Automatic Recovery Patent (10-2034675)
- Dual Communication path multiplexing device and method patent(10-19539901)
- Other 24 patents including Disaster Recovery and Power Distribution Patents (Domestic & Overseas)

[Award]

- Awarded 2016 1st Awards for Korea Technology by Ministry of Trade, Industry and Energy
- Awarded 2016 Merit of Industrial Convergence by Ministry of Trade, Industry and Energy
- Awarded 2019 Leader for Economic and Industrial Sector by Ministry of Trade, Industry and Energy



Slow Charger

AC Single Phase 220V, 7kW, 14kW / 11kW, 22kW

CPx

7kW / 14kW / 11kW / 22kW

BKx

7kW / 14kW

- Real-time user authentication and billing / payment support using LTE Modem
- EV charger's control and pay for charging through smartphone as a remocon
- Support and provide Smartphone App(evRang)
  - Real-time charger location information and charging status information
  - Charging management, charging unit price, charging amount and charging information
- Support dual charging for 2 vehicles
- Support for various control system methods: Local control, central control system
- Automatic recovery function for earth leakage(Patent)
- Improve reliability of charging infrastructure by dual communication network(Patent)

		Slow Charger (CPx)	Slow Charger (BKx)
Rated	Input	Single Phase AC 220V, 32A(7kW), 64A(14kW), 48A(11kW), 96A(22kW)	
	Output	Single Phase AC 220V, 7kW(1ch), 14kW(2ch) / 11kW(1ch), 22kW(2ch)	
Dimension (WxD / WxHxD)		420 X 120(mm)	300 X 420 X 115(mm)
User Interface		LED Display for Charging Information Voice Guidance	7" LCD Display for Charging Information Voice Guidance
Payment Method		RFID, Web, Smartphone App	RFID, Web, Smartphone App, Credit Card
Communication		LTE Modem, Bluetooth, WiFi, LAN	

*Registered to Ministry of Environment and Public Procurement Service of Korea
*EV Charger Stand is an option.

AC 3Phase 380V, 30kW / 50kW / 100kW / 200kW

Fast Charger

EPM
(30kW)

EPFx
(50kW/100kW)

EPFx
(200kW)

- Easy installation and maintenance due to highly space-utilized and simple
- Compact and Slim(290mm) comparing to competitors' DC Fast Chargers
- Adopt Dual operation and distributed control
  - Easy to change for Charging Capacity
  - Support dual charging for 2 vehicles
- Charging method: DC Combo1&2, DC CHAdeMO
- Higher reliable charging Infra via duplicated communication network(Patent)
- Various payment methods
  - Credit card, Membership card, Web, Smartphone App
  - Barcode, QR, MST

		30KW	50KW	100KW	200KW
Rated	Input	AC 380V / 50A	AC 380V / 81A	AC380V / 162A	AC380V / 320A
	Output	DC 200 -1,000V / 30kW(Max)	DC 200 -1,000V / 50kW(Max)	DC 200 -1,000V / 100kW(Max)	DC 200 -1,000V / 200kW(Max)
Dimension (W x H x D)		480 x 700 x 280(mm)	700x 1700 x 290(mm)		600 x 1830 x 800(mm)
User Interface		8" Color Touch LCD	12.1" Color Touch LCD		24" Color Touch LCD
Payment Method		RFID, Web, Smartphone App, Credit Card			
Communication Method		LTE Modem, Bluetooth, WiFi, LAN			

*Registered to Ministry of Environment and Public Procurement Service of Korea
*EV Charger Stand is an option.

Home Charger

Home Charger

AC Single Phase 220V, 5kW / 7kW

TYH
5kW / 7kW

- Easy to install and operate for Private Home Charger
- Control all the functions of EV Chargers using client's smartphone
- User authentication and charging control using RFID Card and smartphone(Bluetooth Communication)
- Reservation function for charging and Automatic charging mode

Speciation		
Rated	Input	Single Phase AC 220V, 23A(5kW), 32A(7kW)
	Output	Single Phase AC 220V, 5kW, 7kW
Dimension (WxHxD)		211 x 345 x 122(mm)
User Interface		LED(Status Display and Charging Information)
User Authentication		Loyalty Card(RFID),Non-Member(Web), Smartphone App
Communication Method		Bluetooth, WiFi

Street Light Pole-Mounted Charger

AC Single Phase 220V, 3.5kW / 7kW

- Easy to install in a street light pole
- Higher reliable charging Infra via duplicated communication network(Patent)
- Shock-resistant enclosure
- Smartphone App-based billing management system

Speciation		
Rated	Input	Single Phase AC 220V, 16A(3.5kW), 32A(7kW)
	Output	Single Phase AC 220V, 3.5kW, 7kW
Dimension (WxHxD)		110 x 325 x 100(mm)
User Interface		1.3 inch OLED (Status & Charging Information Display)
User Authentication		Loyalty Card(RFID),Non-Member(Web), Smartphone App
Communication Method		LTE Modem, Bluetooth, WiFi, LAN

LPP
3.5kW / 7kW

Special Charger

Portable Charger

AC Single Phase 220V, 3.5kW / 7kW

KPV
Standard

KPV
Premium

- Charging using a pre-installed general Electric outlet
- Possible for reservation charging and selectable charging capacity
- Control and manage using smartphone App(Premium)

Speciation		
Rated	Input	Single Phase AC 220V, 16A(3.5kW), 32A(7kW)
	Output	Single Phase AC 220V, 3.5kW, 7kW
Dimension (WxHxD)		Standard Model 87 x 198.5 x 58(mm) / Premium Model 278 x81(mm)
User Interface		2inch OLED, Smartphone App
User Authentication		Button(Standardl) / Bluetooth, Smartphone App(Premium)
Communication Method		Bluetooth, WiFi

Charging Socket

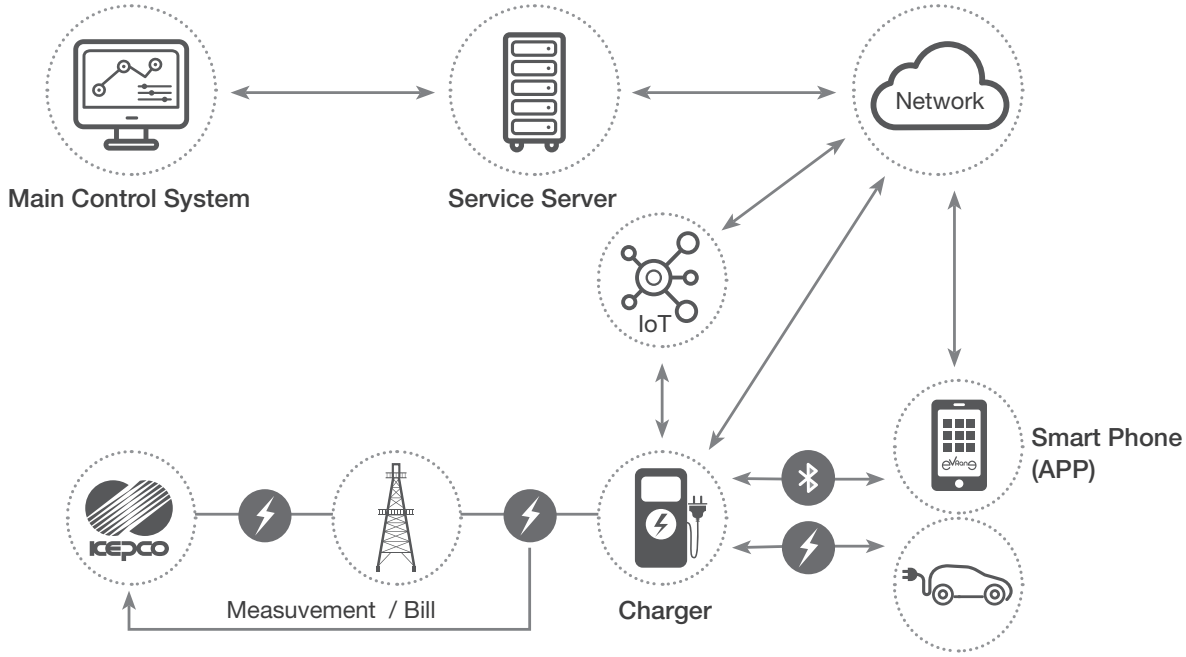
AC Single Phase 220V, 3.3kW

- Available for all mobility products, including electric vehicles
- Easy to install and take a small space (wall-mounted)
- Compatible with domestic and international portable chargers
- Easy to control the power through Bluetooth
- Shock-resistant enclosure
- Improve reliability of charging infrastructure by dual communication network (patent)

Speciation		
Rated	Input	Single Phase AC 220V, 16A(3.3kW)
	Output	Single Phase AC 220V, 3.3kW
Dimension (WxHxD)		110 x 260 x 85(mm)
User Interface		1.3 inch OLED (Status & Charging Information Display)
User Authentication		Loyalty Card(RFID), Smartphone App
Communication Method		LTE Modem, Bluetooth, WiFi, LAN

CSP
(3.3kW)

eVRang 이비랑 Charging Service Diagram



Main Control System
- Management of Chargers & Users

Service Server
- User Authentication
- Charging & Payment
- Charging Information
- Charger Location

Charger
- Various Interfaces
- Power Supply Control
- Payment System Included

APP
- Charging History
- Charger Location
- Payment System
- Smart Charging Function

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