

## Charger specifications

Charges a EV to 80% in only about 25 minutes!

Max. output: 50 kW

Max. DC output current: 120-150 A

Max. DC output voltage: 400-500 V

AC input: 3-phase, 3-wire 200 V, max. 185 A

## Stand

Weight: Approx. 50 kg

Dimensions: Height 1500 mm x width 550 mm x depth 250 mm

Contacts: Contact-type

Internet interface provided

FeliCa port provided for user verification and transaction settlement

## DC power supply

Weight: Approx. 300 kg

Dimensions: Height 1300 mm x width 680 mm x depth 1150 mm



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## KEPCO Rapid Charger for Electric Vehicles



A more comfortable, environment-friendly future.  
One part of the picture is the electric vehicle.

Kyushu Electric Power Co., Inc. (KEPCO) is concerned about the environment and our future, and is helping develop the **Li-ion batteries**, **rapid charger for electric vehicles (EV)** and other technologies needed.

EVs have the potential to provide the same comfortable and convenient rides as today's vehicles, but with significantly lower CO<sub>2</sub> emissions.

At KEPCO,  
our dream is to leave our children a  
"comfortable, environment-friendly future."





## Configuration of KEPCO Rapid Charger for EV

We are actively supporting the widespread adoption of EV and the development of rapid charger for them. KEPCO Rapid Charger is designed to aid EV spread.

Major features include:

- The charger is separate from the charging stand, making the charging stand itself much more compact.
- ID cards can be used for user verification and transaction settlement (FeliCa port provided).
- Multiple charging stands can be installed to charge multiple vehicles simultaneously at a single station.



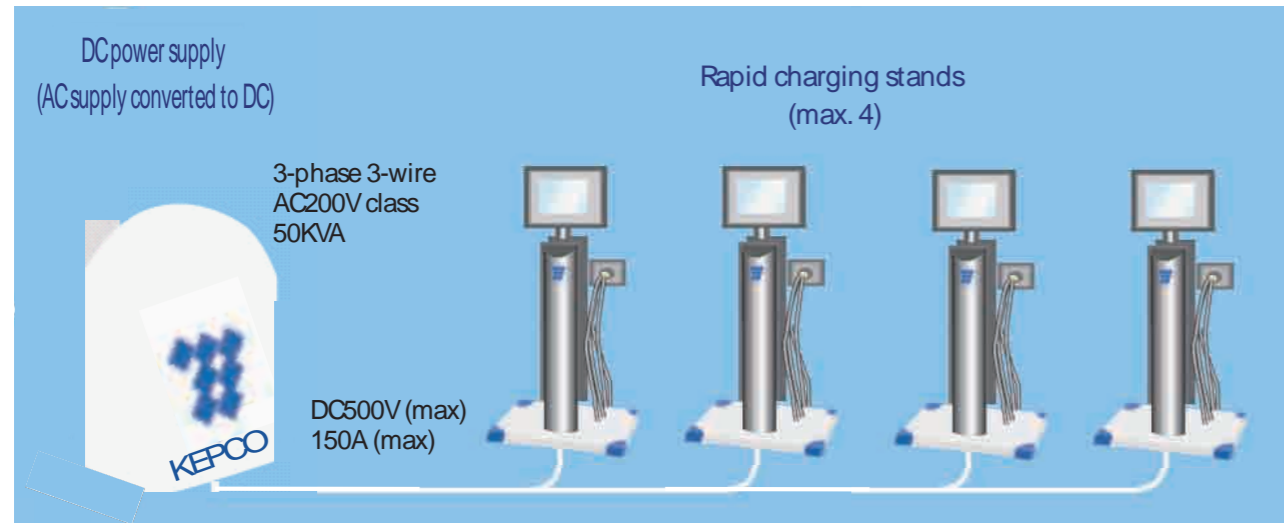
## Outstanding rapid charging performance

Max. charging current is 150 A, one of the highest levels of performance for rapid charging in Japan. Superior functionality and charging performance.

- Rapid charging to 80% of full battery capacity for EV

## KEPCO Rapid charger equipment

### (1) Separate type



- Up to four charging stands can be supplied by a single DC power supply, with a maximum distance of 50 meters between DC power supply and charging stand.
- DC power supply can be either pole-mounted or ground-level equipment to match specific siting requirements.



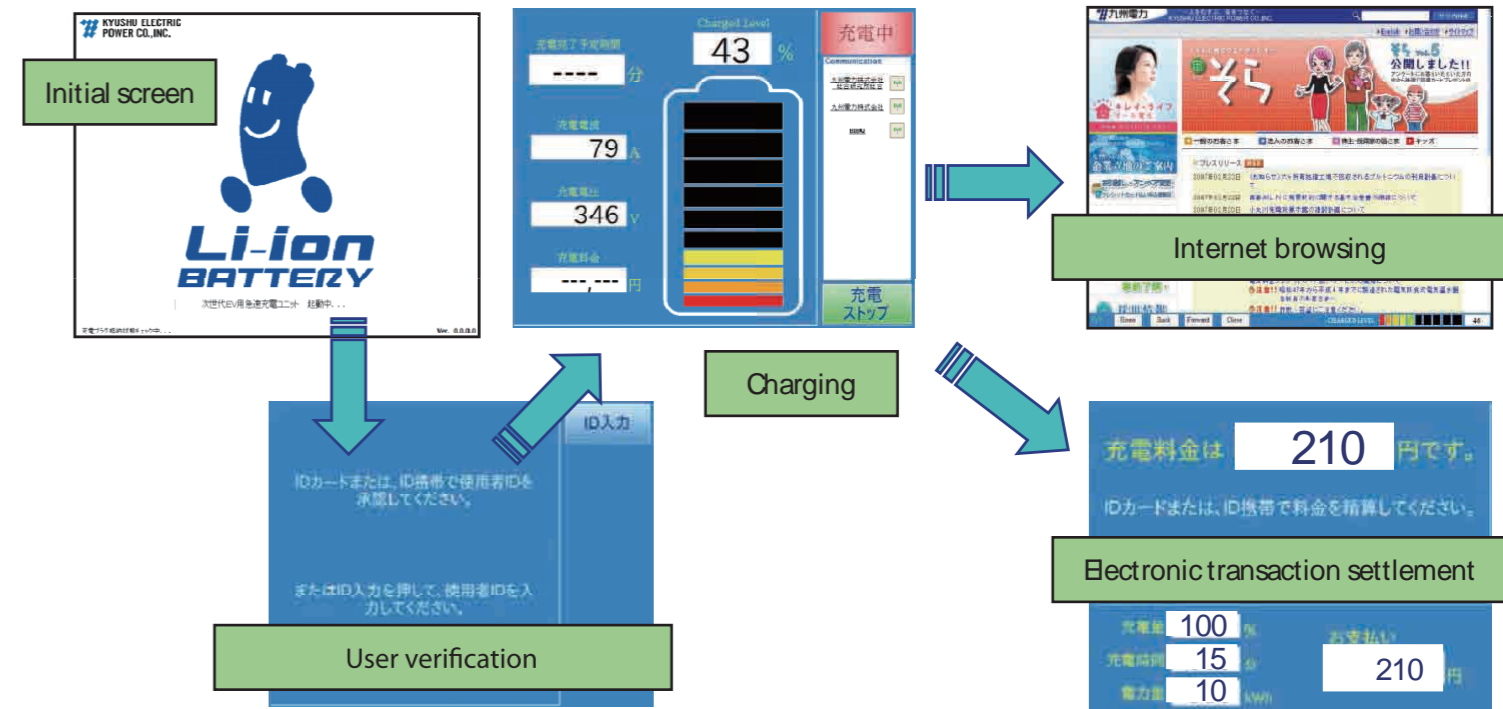
A case of separate type ( 1 charging stand )

### (2) Unified type



## Information access

A communication platform, providing the information you need, when you need it. KEPCO Rapid Charger will have an optical interface for Internet protocol (IP) communication, providing powerful capabilities for electronic settlement of charging fees, user verification, and the provision of a range of useful information.



## Field trials of KEPCO Rapid Charger

In fiscal 2008, field trials of KEPCO Rapid Charger which is using 10 i-MiEV electric vehicles have finished, and there was no problem.



## Lithium-ion batteries

We are developing lithium-ion batteries in collaboration with Mitsubishi Heavy Industries, Ltd. for electric power storage applications, and in EVs and plug-in hybrid EVs (PHEV). Field trials and evaluation are under way now, with the objective of putting the technology into commercial use, including in EVs.



P270 electric power storage use



P140 EV use



P070 PHEV use