## eleide Vehiele

2021.8.

BLE

### Battery Electric Vehicle





**Product features** 

- Lightweight body: carbon fiber body covering + aluminum alloy tubular frame
- **Dual motor drive:** good sporty performance
- Suspension system: double wishbone independent suspension
- Full 360-degree image
- Electrical door: auto open and close
- **The Brembo** fixed pair of four piston calipers provides
  - guaranteed braking performance

Dimension (mm)	4634*2069*1253	
Wheelbase(mm)	2650	
Curb Weight (kg)	1960	
Seat	2	
Drive model	Dual motor intelligent timely four-wheel drive	
Acceleration 0-100 km/h	≤ 4.6 sec.	
Top speed	≥200 km/ h	
Endurance Mileage	≥380 km	
Charge Time	Rapid charge : (45min,0-80% SOC)	
Drive Motor	Permanent magnet synchronous motor	
Peak Motor Power (kw)	160*2	
Peak Torque (Nm)	290*2	
Battery	Lithium battery	
Battery capacity	78.9 kWh	
Wheel	F: 235/35ZR19 (87Y) R: 265/35ZR19 (94Y)	
Braking System	F/R: Disc	
F/R Suspension	Double wishbone independent suspension	



# GX5

Dimension (mm)	4150×1800×1611	
Wheelbase(mm)	2650	
Tires type	215/50 R17	
Battery Type	Ternary lithium battery	
Motor	Permanent Magnet Synchronous, single	
Max Power (kW)	≥90	
Max Torque (N·m)	≥280	
Top Speed (km/h)	140	
Battery Range (km)	338	
AC charge time in normal temperature ( 0-100%)	≤7.5h	
Fast charge time in normal temperature(30- 80%)	40min	



Dimension (mm)	3710x1675x1535			
Wheelbase(mm)	2500			
Tires type	215/50 R17			
Battery Type	Ternary lithium battery			
Motor	Permanent Magnet Synchronous, single			
Max Power (kW)	≥55			
Max Torque (N·m)	≥170			
Top Speed (km/h)	120			
Battery Range (km)	338			
AC charge time in normal temperature( 0-100%)	≤12h			
Fast charge time in normal temperature(30- 80%)	60min			

GC2

Dimension (mm)	3310×1675×1535	
Wheelbase(mm)	2100	
Seats	2 or 4	
Battery Type	Ternary lithium battery	
Motor	Permanent Magnet Synchronous, single	
Max Power (kW)	≥55	
Max Torque (N·m)	≥170	
Top Speed (km/h)	120	
Battery Range (km)	368	
AC charge time in normal temperature( 0-100%)	≤12h	
Fast charge time in normal temperature(30- 80%)	60min	



4705*1790*1540	
2700	
1661	
5	
415	
150	
30%	
Permanent magnet synchronous machine	
liquid cooling	
120	
280	
Pure electric	
≤11h	

### **S50EV**



M	5	E	



5EV 5 seats	5EV 7 seats	5EV 9 seats
	3000	
1870	1950	1980
550	620	590
2420	2570	2570
5	7	9
1020/1400	1080/1490	1060/1510
120		
20		
420		
≤19.5 ≤19.8 ≤19.9		
Permanent magnet synchronous motor		nchronous
Water cooling		
90		
300		
≤10h		
1h		
	5 seats 514 1870 550 2420 5 1020/1400 2 1020/1400 2 1020/1400	5 seats       7 seats $514 \times 1720 \times 19$ $514 \times 1720 \times 19$ $3000$ 1870       1950         550       620         2420       2570         5       7         1020/1400       1080/1490         1020/1400       1080/1490         20       20         420       20         219.5       ≤19.8         Permaner magnet symmotor         motor       90         300       300         ≤10h



### **MG EZS**



Dimension (mm)	4314x1809x1620	
Wheelbase(mm)	2585	
Curb Weight (kg)	1518	
Seat	5	
Endurance Mileage	428 km	
Drive Motor	Permanent Magnet Synchronous	
Max Motor Power (kw)	110	
Max Torque (Nm)	350	
Battery	Lithium battery	
Battery capacity	44.5 kWh	
AC charge time in normal temperature ( 0-100%)	≤6.5h	
Fast charge time in normal temperature(30-80%)	30min	



### **U5**

#### **Product features**

- ♦ APA automatic parking system
- ◆ 2.8m extra-long wheelbase
- ♦ A+ Excellent Layout
- Original LCD instrument three fold screen
- ♦ Nearly 1m rear legroom



Dimension (mm)	4680*1865*1700	
Wheelbase(mm)	2800	
Curb Weight (kg)	1770	
Seat	5	
Energy recovery system	The Bosch iBooster brake	
	energy recovery system	
Acceleration 0-100 km/h	7.6 sec.	
Top speed	160 km/ h	
Endurance Mileage	405-600 km	
Charge Time	Rapid charge : (30min,0-80% SOC)	
Drive Motor	Permanent magnet synchronous motor	
Peak Motor Power (kw)	150	
Peak Torque (Nm)	310	
Battery capacity	53-72Wh	
Braking System	F/R: Disc	
	McPherson type/multi-link	
F/R Suspension	type independent suspension	

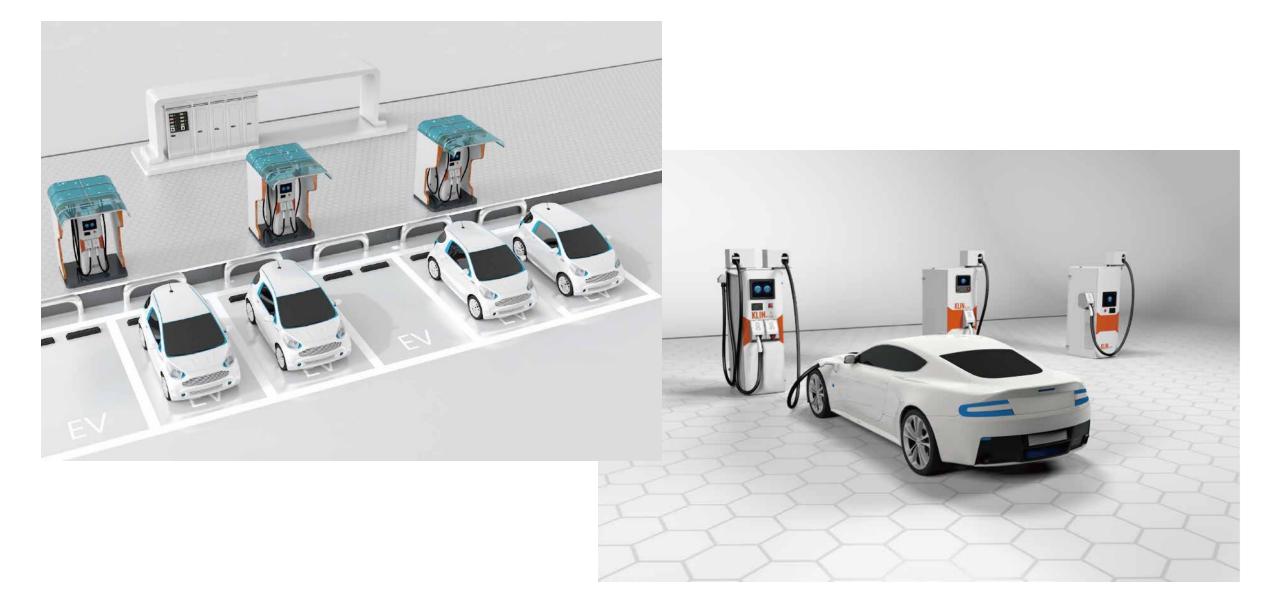


### BXi7



Dimensions (mm)	4713*1923*1690	
Wheelbase (mm)	2760	
Curb weight (kg)	1950	
Luggage capacity (L)	545/1377	
Tire specifications	235/60 R18	
Drive form	Electric four-wheel drive	
Motor type	Permanent magnet synchronous motor	
Battery Type	Ternary lithium battery	
Power (KW)	178 (front/rear: 89/89)	
Maximum torque (N·m)	390	
Power consumption (kWh/100km)	16.3	
60km/h constant speed cruising range (km)	375	
Battery capacity (kWh)	49	
Charging time	Slow charge: 8h Fast charge: 30min (80% )	
Maximum speed (km/h)	195	
Acceleration time 0-100km/h (s)	7.9	





Major Clients and Selling





#### Service Regions and Network in Korea



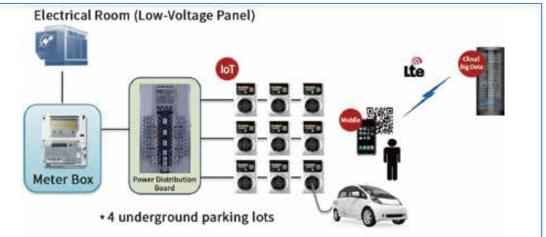


- Maintenance Staff for Each Regional Center
- Speedy Troubleshooting System
- ► The Best Customer Service
- Call Center Available 24/7

#### APT. Multi-charging System(Jeju Test Site)

Increase of EVs by five times due to ease of charging EVs

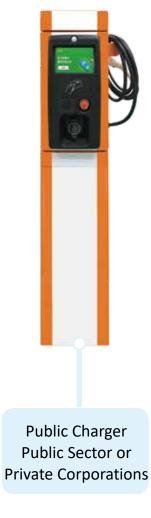
without having to compete for parking space





#### • Slow Chargers (12,000 Sold)

KL10-SD2K 7kW



KL10-WD2K 7kW



KL60 C-type 7kW KL60 B-type 7kW



KL41 BC(LCD) 7kW



Cha	arger Type	Wall-Attached Type (Can Choose Standing Types of KL 10-SD2K)	Wall-Attached Type (Can Choose Standing Types)	Wall Attachment Type (Can Choose Standing Type)
Model Name		KL10-WD2K(B Type & C Type)	KL60 (C Type)	KL41-RBC (B-type & C-type)
In	nput	220V/60Hz	220V/60Hz	220V/60Hz
Ou	utput	220V/32A (7kW)	220V/32A (7kW)	220V/32A (7kW)
Operating	Temperature	20~93%	-20~40°C	-20~40°C
Conditions	Humidity	20~93%	20~93%	20~93%
Operat	ation Screen	LCD Touch Screen	LED Display	LCD LCD Touch Screen
Lisor Auth	hentification	1. Cell Phone App Authentication	1. Cell Phone App Authentication	1. Cell Phone App Authentication
User Auti	nentineation	2. RF Card Authentication (Need to register RF card)	2. RFID Card	2. RF Card Authentication (Need to register RF card)
Ch	arge Time	4 hours or less (based on 28kWh battery)	4 hours or less (based on 28kWh battery)	4 hours or less (based on 28kWh battery)
Protec	ction Grade	IP44	IP44	IP44
Size(V	W×D×H)	297x210x1400(mm), Wall-attachment length 650(mm)	175×250×92(mm)	300×365×174(mm)
We	'eight	Wall-attachment Type (19kg), standing type (31kg)	3.6Kg	9Кg
Certi	ification	KC-Certification, Electromagnetic Wave Certification	KC-Certification, Electromagnetic Wave Certification	KC-Certification, Electromagnetic Wave Certification
Con	inector	5 pin Connector (5m-long cable) + charging socket	J1772 5pin Cable	5 pin Connector (5m-long cable) + charging socket
Charac	cteristics	<ul> <li>Easy to use</li> <li>Bright LCD with responsive touch panel</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>	<ul> <li>Shows condition of connection of charging cable</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>	<ul> <li>Bright LCD with responsive touch panel</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>

#### Socket Outlet : 220V socket / 5-Pin(basic) / 7-Pin Cable Length : 5m(basic) / 7m / 10m

#### KL41IC-BC(IC CARD) 7kW



KL4214-BCC-IC (IC CARD) 14kW



Two 7kW Charging Cables (14kW)

KL4214-BCC 14kW



Wall Attachment Type (Can Choose Standing Type)	Wall Attachment Type (Can Choose Standing Type)	Wall Attachment Type (Can Choose Standing Type)
KL41C-BC (B-type & C-type)	KL 4214-BCC-IC (B-type & C+ C type) 14kW	KL 4214-BCC-IC (B-type & C+ C type) 14kW
220V/60Hz	220V/60Hz 14kW	220V/60Hz 14kW
220V/32A (7kW)	32A (7kW) / 32A (7kW)	32A(7KW) + 32A(7KW)
-20~40°C	-20~40°C	-20~40°C
20~93%	20~93%	20~93%
LCD Touch Screen	LCD Display (2 separated screens)	LED Display (2 separated screens)
1. Cell Phone App Authentication	1. Cell Phone App Authentication	1. Cell Phone App Authentication
2. IC Card + RF Card Authentication	2. IC Card + RF Card Authentication	2. RF Card Certification (Needs to register RF card)
4 hours or less (based on 28kWh battery)	4 hours or less (based on 28kWh battery)	4 hours or less (based on 28kWh battery)
IP44	IP44	IP44
300×365×174(mm)	300×365×174(mm)	300×365×174(mm)
9Кg	11Кg	11Kg
KC-Certification, Electromagnetic Wave Certification	KC-Certification, Electromagnetic Wave Certification	KC-Certification, Electromagnetic Wave Certification
5 pin Connector (5m-long cable) + charging socket	Two 5 pin Connector (5m-long cable) + charging socket	Two 5 pin Connector (5m-long cable) + charging socke
<ul> <li>Bright vivid LCDscreen</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>	<ul> <li>IC Card</li> <li>Charging two EVs at the same time</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>	<ul> <li>Charging two EVs at the same time</li> <li>Show information on charging <ul> <li>Amount of charging electricity</li> <li>Charging time</li> </ul> </li> <li>Automatic detects charging connector B/C type</li> <li>Low electricity consumption during waiting time</li> <li>Applicable for all cars(type B/C)</li> </ul>



KL40-BC 7kW

to Korea national Environment Corporation



#### • Fast Chargers (50kWh ~400kWh)





#### Output Power: 50kW

DCOutput: Maximum 500Vdc, 125Adc

Cooling Method : Cooling Fans

Display: Capacitive Touch Panel (8 inches)

Charging Time: 30 minutes (synchronized to battery size)

Product Size: 500(W) x 700(D) x 1,500(H)mm

Weight: 180kg

Connector: Combo 1ea

User Authentication: Synchronized RF card, password, charging system

Charger Type: DC Combo

Input: 3-Phase 4-Wire AC 380V ~480V

Power Factor: 0.99

Temperature: -20°C ~40°C

Humidity: 20~93%

Certification : KC, EMC

Characteristic: 1. Compatibility verification with all EVs of Combo Type 1

2. Even the elderly are able to use the product at use with the electromotive reel system

3.

4. Safety function (detecting abnormal temperatures and circuit state and blocking)



Fast Charger fo the weaks (Motor-puller system)





#### **Patent Application**

This patented equipments unreels the cable automatically using electromotive motors and sensors, and when charging is complete, the cable is pulled in automatically to ensure that

#### **High Efficiency Certification :**



#### **Convenient Handling of Cable**

- When the cable is detached from the connector box from the charger, the cable is unreeled automatically
- When the cable is returned to the connector box, the cable is returned to the original place automatically
- The user is able to control the length at ease

- Even the women and the elderly are able to use the product conveniently and safely
- ▶ The cable does not touch the ground, so the cable is not dirtied and guarantees safe using

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▶ The cable could be attached to chargers of other companies

#### Power-vending Outlet



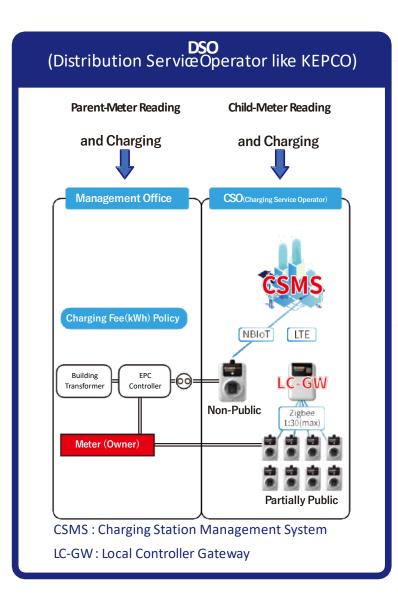
Category	Content
Output Capacity	3.5kW (16A)
Size	175(W) × 250(H) × 92(D) m m
LED Display	Charging state, remaining electricity
Payment Method	RF Card, Smartphone Application
Metering	Embeded Metering

#### **Characteristics**

- ▶ Non-public charger conveniently installed to apartment buildings
- Managed service device including communication modem and RF reader

#### Managed Services

- The contractor separate the EV parent power meter and child meter and pays the basic fees and the usage fees
- Klinelex verifies the monthly EV charging amount and sends the data to KEPCO
- KEPCO deducts EV charging amount from the parent meter
- Authentification and Connection
  - K-charger app, QR code and RF membership card authentification
  - Connects to the automobile inlet after authentification

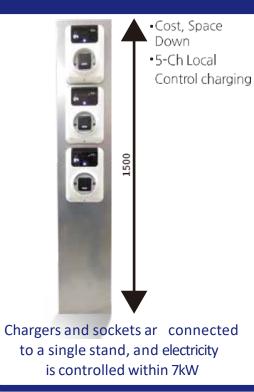




• EV Chargers Line-up



#### Managed Multi-Charging Stand



3.5kW, 7kW Slow Chargers and Others



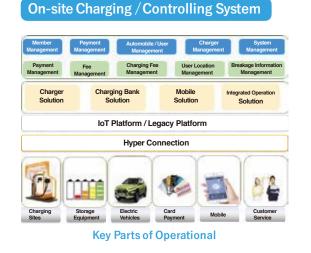
BC type Public Charger and 1.5kg Super-Light Charger Sold by More than 10,000 Units

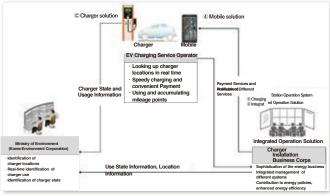
#### 50~400kW High-Speed Charger



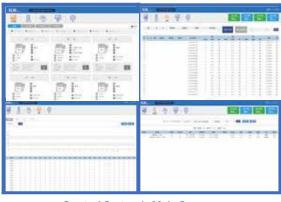
The electromotive reel cable system enables easy use with little effort

Charger Management and Billing Solutions





**Operation Systems relationship diagram** 

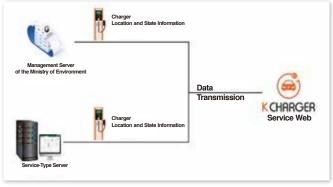


**Control System's Main Screen** 

#### Service-Type Charging and Control System

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**Control System's Main Screen** 



**Operation Systems relationship diagram** 



#### **On-Site Payment**

1 Member Payment: Card, Cell-Phone Payment, Mobile Cash 2. Non-Member Payment: Card, Cell-Phone Payment, QR Code

(Charging by Customers via Smartphone App)

