



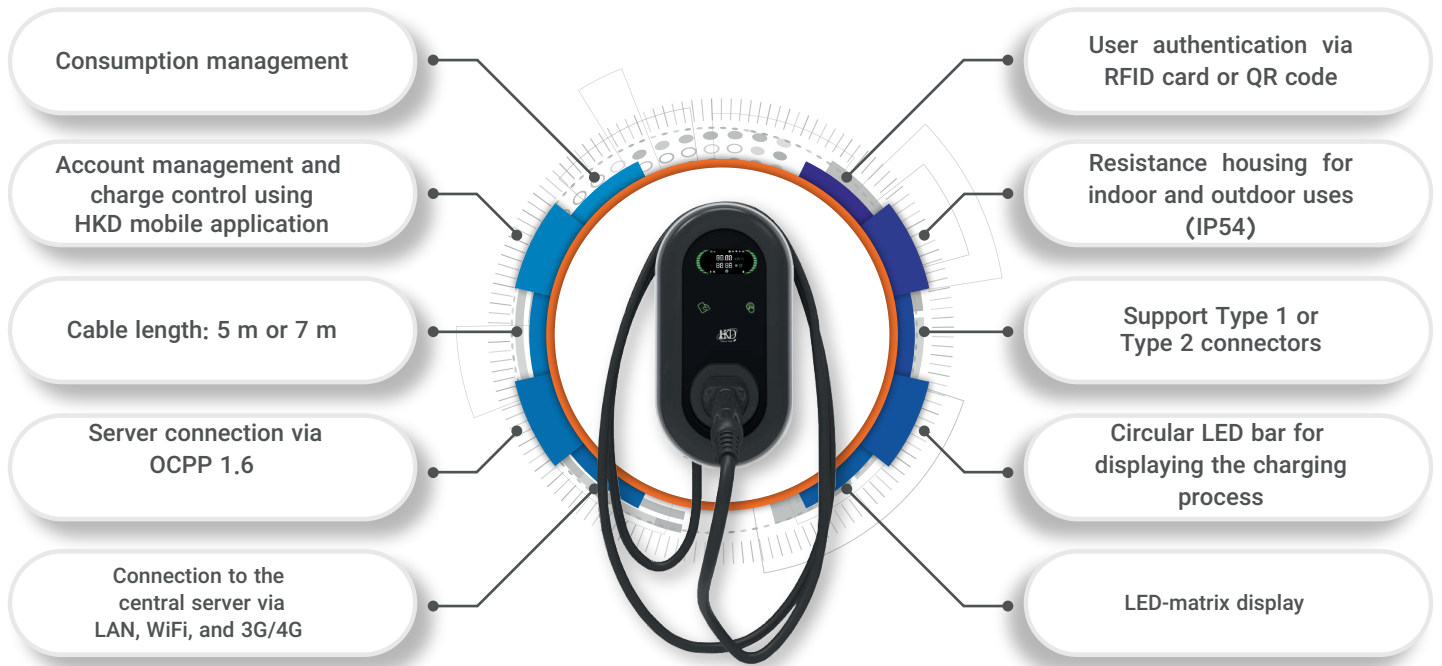
AC Wallbox Charger

7.4 kW

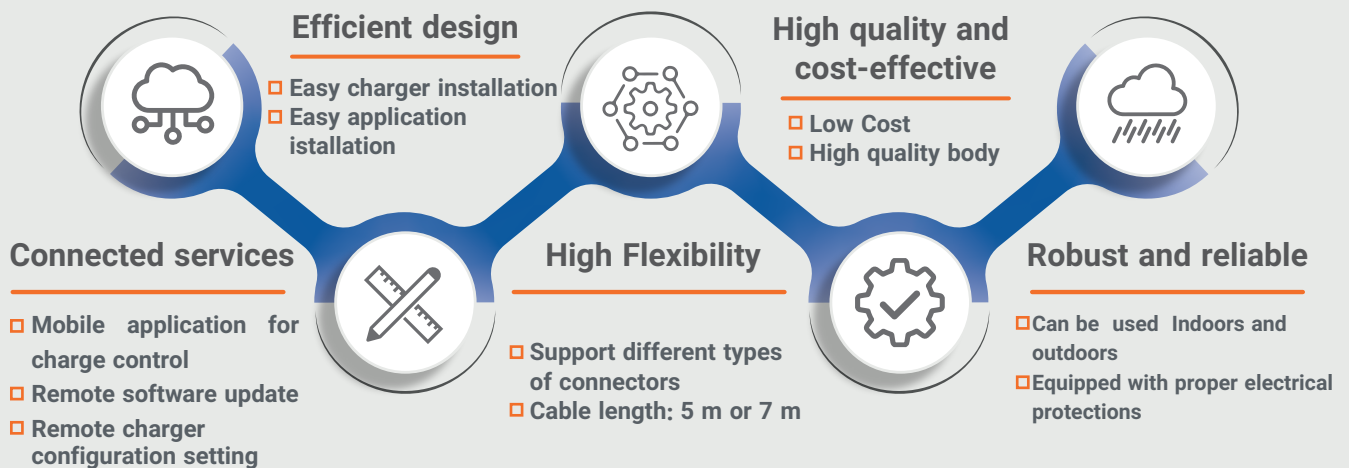


Main Features

AC wallbox chargers provide a smart solution with high quality and reliability for charging the common commercialized models of EV. Monitoring and load management capabilities provide high level of comfortability for the users.



Advantages of AC wallbox charger



General Specifications

Input	
Voltage	230 +10%V AC, single phase
AC power supply	1P + N + PE
Maximum current	16 A 32 A
Efficiency	99%
Operating frequency	50-60 Hz
Earthing system	TN-S
Outlet flow	
Supported standards	IEC 62196-2 and IEC 61851-1
Nominal power	3.7 kW 7.4 kW
Nominal voltage	230 V AC
Number of output	single
Maximum current	16 A 32 A
Protections	Current, voltage, leakage current and earth fault monitoring
Power measurement accuracy class	Less than 1% at 25°C
Remote control and configuration via	Authentication, Payment, Monitoring, Remote
MAPNA connected services	fault detection, repair
Environmental specifications	
Operating temperature	-25°C-55°C
Ingress protection	IP 54
Allowable humidity range	5%-90%
Operating altitude	2000 m
Mechanical specifications	
Body material	Plastic
connector model	Type 1 or Type 2
Cable length	5 m or 7 m
Dimensions	230* 455* 260 mm (H*D*W)
Certification and warranty	
Certification	CE
Warranty	12 months

Special Specifications

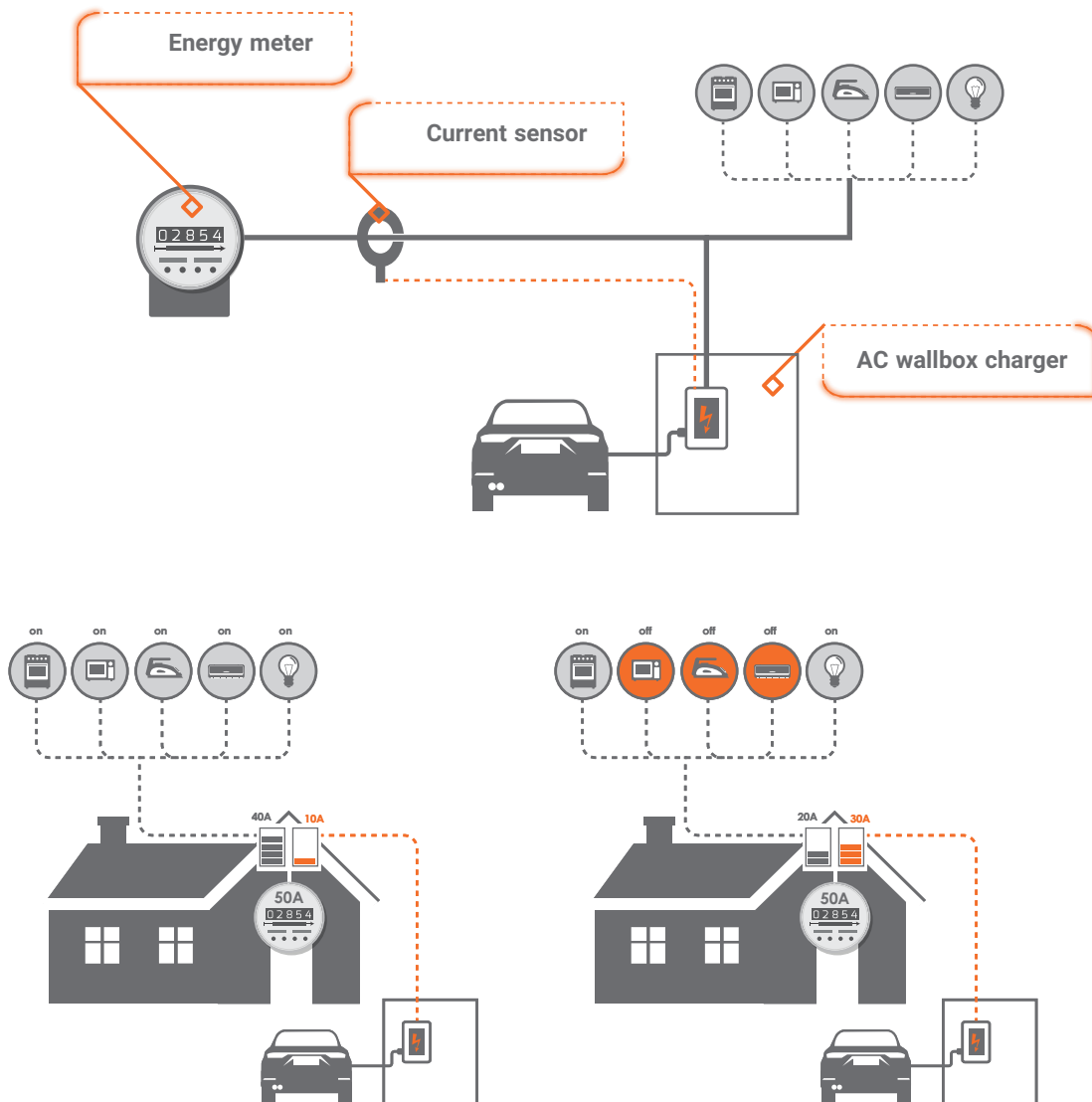
	Basic	Advanced
Communication protocol	-	OCPP 1.6
RFID specifications	-	ISO/IEC 14443A , MIFARE Classic/13.56 MHz
Display	-	LED Matrix
User interface	-	Webtools/App
Local network capability	-	yes
Language	-	English-Persian
Charging mode	mode 2	Mode 3
Load management	-	yes
Network type	-	WiFi, 3G/4G, LAN

Smart load management

- Connection capability of the charger to the building energy management system
- Charger current setting capability according to the upper limit of house main fuse
- Remote start and stop of charging process

The capability of locally networking several chargers

In the case of using the energy meter of a house for supplying the charging station, charging management for monitoring the upper current limit of main fuse can be done via external sensor which is connected to the HKD wallbox charger. This capability gives the house owner maximum utilization of fuse capacity and prevent overcurrent damages in wiring of the house.



The capability of locally networking several chargers (Master-Slave)

For places such as hotels where the unit manager asked to have several AC chargers for cost reduction, the possibility of purchasing and installing the chargers in Master-Slave mode is provided. In this method, the master charger, through an internet connection, is connected to the data center, and the remaining chargers (maximum of 32 chargers) would connect to the master charger via CAN protocol. All the chargers in this collection are able to connect to the data center, provide remote control, and authenticate distinctively.

1

The power consumption of each charger can be balanced using the central server

2

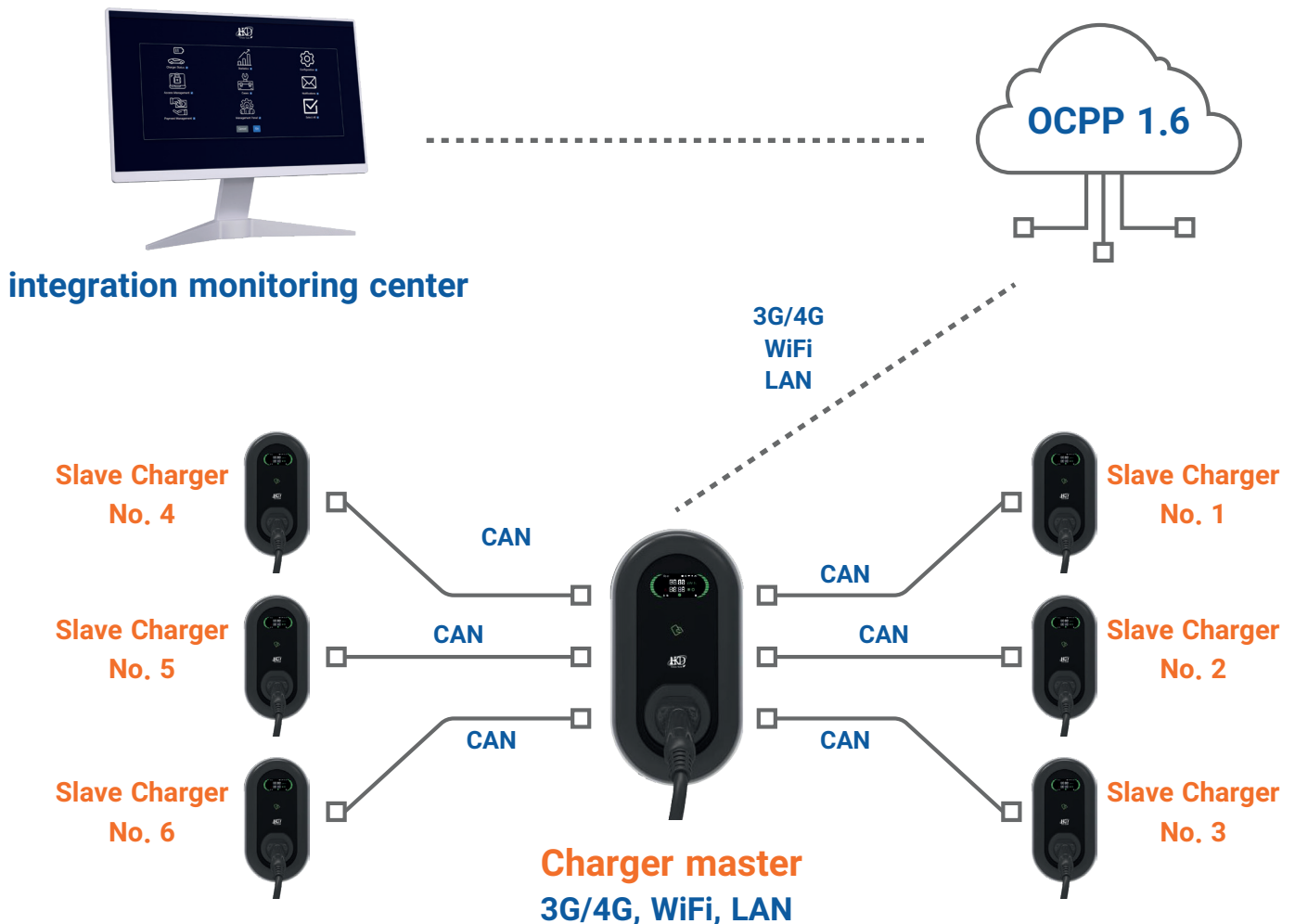
The maximum current of the charger can be tuned using an external current sensor

3

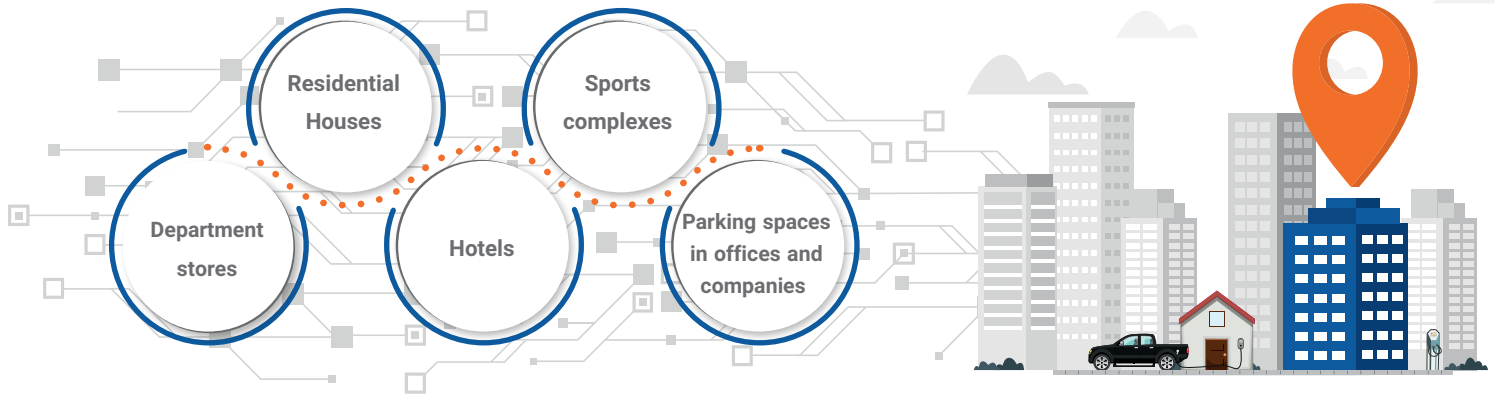
User authentication can be done at each charger

4

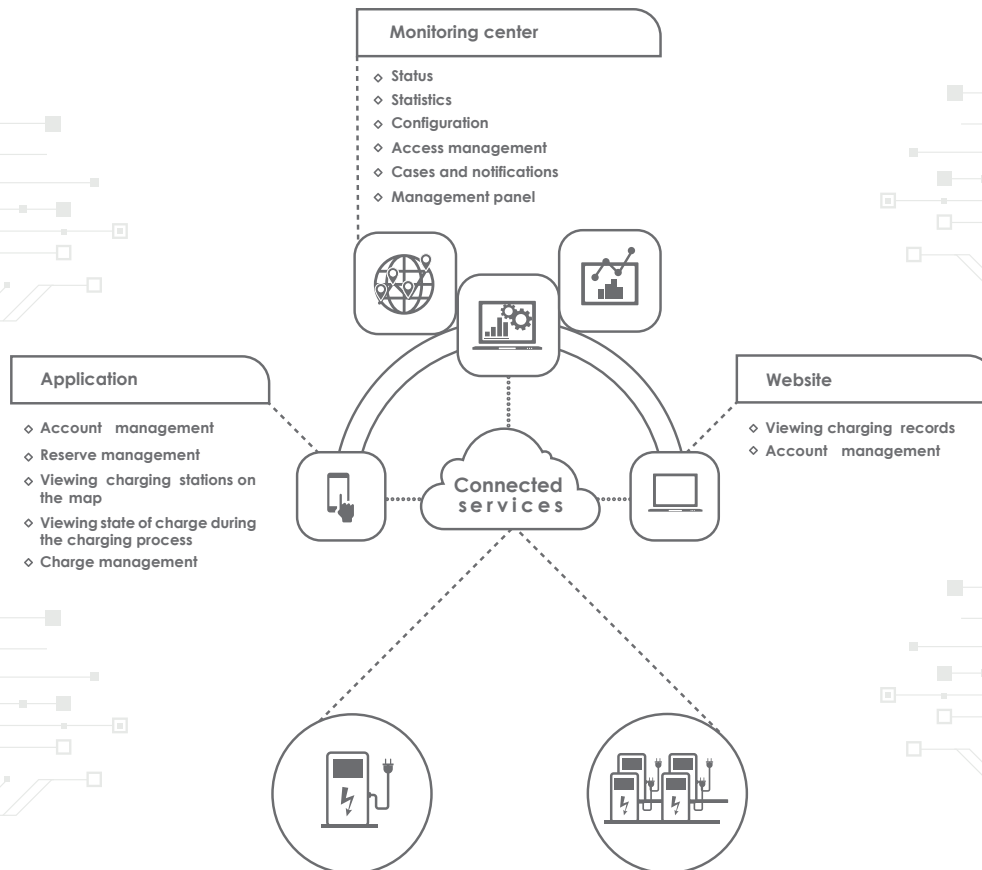
Master charger is capable of connecting up to 32 slave chargers





Use cases



Connected services



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