Ever Drive
EV CHARGING SOLUTIONS

everduo
ELECTRIC VEHICLE RECHARGER



Description

EVERDUO is a universal fast charging system for electric vehicles provided with a 50kW DC and a 22/43kW AC outputs. The 50kW DC output complies with the CHAdeMO protocol and the AC output satisfies the IEC 61851-22 protocol.

EVERDUO is an ideal solution for charging all types of electrical vehicles, as well as for electrical utilities and future petrol stations when a fast charging is required, because it offers much shorter charging times than other solutions.

EVERDUO DC output provides 500V DC with a Yazaki type connector and the AC output provides 400V AC with a type 2 connector (Mennekes) according with standard 62196, being possible to be supplied with a connector type 1 (SAE J1772) or type 3 (Scame).

EVERDUO has one industrial embedded PC and a user interface with a 5.7" colour touch-screen that makes the charging procedure very easy and intuitive, showing all the required information during the charging process.

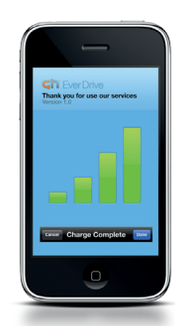
Features

EVERDUO is equipped with a contact-less user identification system (RFID), allowing proper validation, billing procedures and statistical use reports.

Optionally, **EVERDUO** has the capability to send SMS messages, informing the user when the charging process has finished, and including a brief report of the recharge data.

EVERDUO can be connected to external networks, in order to provide the following services:

- Integration in proprietary management and maintenance systems.
- Usage statistics, including user identification and electrical parameters.
- Remote information about availability of charging stations.
- Integration of an **EVERDUO** equipment in an **EVER** network.
- Remote information of the main parameters during the charging process.
- Remote firmware upgrade.
- Vehicle Fleet management.



Cell phone application



Remote management



everduo charge station

AC/DC

50 kW DC
22/43kW AC

Ultra fast

RFID

Touch-screen

CHAdeMO

IEC 61851-22

www.gheverdrive.com

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SPECIFICATIONS	AC Output	DC Output
INPUT		
Supply voltage	400V ±10% 3 phases +neutral +earth	
Frequency	50-60Hz ±5%	
Input current	32/63A	80A
Input power	22/43kVA	55,4kVA
Power factor	-	>0.95 at nominal power
OUTPUT		
Output power	22/43kW	50kW
Maximum output current	32/63A	120A
Output voltage	400V	50-500V
SAFETY AND ELECTRICAL SPECIFICATIONS		
Efficiency	-	95%
Short circuit protection	Yes	Yes
Over-current protection	Yes	Yes
Input differential protection	Yes	Yes
Output differential protection	-	Yes
Emergency stop	Yes	Yes
Isolation system	-	High frequency transformer
Charging protocol	IEC 61851	CHAdeMO
Connector	Type 2 (1)	Yazaki
MECHANICAL SPECIFICATIONS		
Size	1200 x 600 x 1900 mm(2)	
Weight	440Kg	
Protection	IP55	
Cooling	Forced air	

ENVIRONMENTAL CONDITIONS	
Environment temperature	-10 to +40ºC
Maximum humidity	90% without condensation
STANDARDS	
CE certification	Yes
CHAdeMO certification	Yes
USER INTERFACE	
Screen	TFT Led 5.7" Touch-screen
Push buttons	Start/stop illuminated
Information	· Charging level · Charging time · Estimated remaining time for end of charging · Connection failure information · Energy, power, voltage and output current
COMMUNICATIONS	
Standard protocols	Ethernet, RS-485,RS-232
Optional protocols	GSM/GPRS, Zigbee(3), PLC(3)
IDENTIFICATION SYSTEM	
RFID reader	ISO 14443, Type A 13.56MHz
OPTIONALS	
Modem	SMS messages, remote invoicing

(1) Possibility of ordering type 1 and type 3 of the standard 62196

(2) Width x depth x height

(3) Under development

Specifications subjected to minor changes.

CHAdeMO

GH EverDrive is a regular member of the CHAdeMO Association

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