



## 24KW DC WALL MOUNTED CHARGER

Meets all car manufacturers' charging requirements

### 1. Overview

- LCD display
- RFID Reader
- Ethernet
- USB connector
- External Emergency stop

### 2. Communication

Multistandard vehicle interface:

- CAN (for CHAdeMO and GB)
- PLC GreenPhy V2G (for COMBO)
- Control Pilot (for COMBO)

Supervision capability:

- Software updating capability (USB or Ethernet)
- LAN/TCP-IP
- USB
- CAN
- Option : Wifi and GSM (OCPP)

Output connector (vehicle side):



COMBO 1



COMBO 2



CHAdeMO



GB CATARC

### 3. Standard

Directive:

2006/95/EC / 2004/108/EC / 93/68/EC

Safety:

IEC61851-1 / IEC61851-23

UL2201 / UL2231-1 / UL2231-2

EMC (emission):

CISPR11 Class A / CEI 61000-3-11 / CEI 61000-3-12

EMC (immunity):

IEC 61000-6-2

Communication:

IEC15118-1 / IEC15118-2 / IEC15118-3 / DIN70121 / J1772 / CHAdeMO / GB



#### 4. Characteristics

<b>INPUT</b>	
	Voltage: 3 X 400V / 480V 3Ph + Earth (Class I) voltage range 360VAC to 508VAC 45Hz to 65Hz.
	Max input current : 33A (@480VAC) / 40A (@400VAC)
	Power factor: > 0.93
	Earth leakage current: 3.5mA maxi.
	Efficiency : 94%
<b>OUTPUT</b>	
	Voltage : 300VDC to 460VDC
	Current : 0,5 to 62A
	Max output power : 24KW
	Ripple current : < 2% (BW = 20Hz to 100Khz)
<b>INSULATION</b>	
	Input / Output : 2500VAC
	Input / PE : 2500VAC
	Output / PE : 2000VDC
<b>HARDWARE PROTECTIONS</b>	
	Circuit breaker MCB 40A (@480V 3P) 50A (@400V 3P)
	Output diode on power module
	Fast acting fuses on output
	AC input and DC output contactors
<b>ELECTRONIC PROTECTIONS</b>	
	Overload and output short-circuit
	Over temperature and temperature regulation
	Output over voltage / reverse polarity
	Charging plug defects
	Commutation failure
<b>OPERATING TEMPERATURE</b>	
	-20°C to +40°C
<b>COMMUNICATION BUS</b>	
	Format CANbus compliant with CHAdeMO 0.9 and GB standard
	Format PLC compliant with ISO15118-1-2-3 / DIN70121 / J1772 standard for COMBO
<b>MECHANICAL FEATURES</b>	
	Dimensions: H 798 x l 478 x W 302
	IP 54
	Weight: 68kg

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