



# DC60 fast-charger

The DC 60 fast charger can be used for all electric vehicles with a CHAdeMO or CCS connection. The charger has a DC power output of up to 60kW. The actual payload depends on the power available, up to 90 amperes required (adjustable from 10A to 90A). The charging station is designed to charge vehicles equipped with a mode 4 charging system in accordance with IEC 61851-1 (edition 2.0) with a plugging system in accordance with VDE-AR-E 2623-2-2 / IEC 62196-2.

The charging station will make the safest choice together with the vehicle and its installation, allowing the vehicle to be charged quickly and safely. The entire charging station complies with the Directive on the harmonization of laws relating to electrical equipment within certain voltage limits (recast of all previous versions).





# Easily charged.



## General

Number of charging points: 1

Durabel and representative design

DC cable length: 3 meter

Dimensions (HxBxD): 1440 mmx610 mmx350mm

Weight: 235 kg



## Designed to integrate

Network connection: Ethernet/3G/UMTS/GSM Modem

Operation by means of a charge card

Service op afstand via GSM/GPRS communicatie

Casing: IP54 / IK10



## Safety and quality

Fuse holders / safety box

12 Volt control voltage

Strain relief

IP54 waterproof class

Anti-corrosion treatment and powder coating

Electronic - and safety protection

Warranty 1 year—extendable to 5 years

Extremely suitable for public placement

A high-performance fast-charger with fast loading and high ease of use.



## DC Output

Nominal connection value: 1 x 100A

Maximum output power: 60 Kw

Output voltage range: 150~500V

## Optional

Sticker with your own logo



# Technical sheet

## AC Input

Input voltage: 3 x 400VAC + N  $\pm$  10%  
Input frequency: 50Hz  
Power factor: Rated output load PF  $\geq$  0.99  
Connection value: 3 x 90A (available at lower power can be software-adjusted loader lower)  
Earth leak protection: Type B  
Input under voltage protection: 255V  $\pm$  5V  
Engasion  
Overvoltage protection: 490V  $\pm$  5V  
Input power reduction: 260V  $\pm$  5V < Vin < 304V  $\pm$  5V,  
Linear power decreasing from 100% to 50%

## DC Output

Output power: 1 - 60 kW  
Constant power range: 60KW@400-500V (300-1000Cc on request)  
Output voltage range: 150~500V (200-1000-c on request)  
Edge current range: CCCS: 0~250A (500A peak), CHAdeMO: 0~130A  
Output Overvoltage protection: 510  $\pm$  5V  
Exit undervoltage alarm: 140V  $\pm$  2V  
Voltage stabilized accuracy:  $\leq \pm 0.5\%$   
Max.Startup excess:  $\leq \pm 1\%$   
Current stabilized accuracy:  $\leq \pm 1\%$  Startup time: Normally 3s  $\leq$  t  $\leq$  8s  
Efficiency: >96%

## Environment

Operating temperature: -30°C ~ 70°C, reduction from 55°C.  
Overheating protection: At a temperature of > 70°C  $\pm$  4°C or < -40°C  $\pm$  4°C, the charging station will switch off automatically.  
Operating / ambient temperature: -25° to 60°  
Load temperature: - 40°C ~ 85°C.  
Humidity:  $\leq$  95% RH, without condensation  
Pressure/height: 79kPa~106kPa/2000m

## Physical properties

Acoustic noise: < 62dB  
Water density class: IP54  
Cooling: Air cooling fans  
Dimensions (HxBxD): 1440 mm x 610 mm x 350 mm  
European standards: EN 61851-1 2011, EN 6185123-2014,CE  
Material housing: Steel > 3 mm  
Treatment: Anti-corrosion and powder coating  
Standard color: Hull: RAL 6018 / Shield: RAL 9016  
Weight: 235 kg  
Number of charging points: 2 (combination from CCS and CHADEMO)  
Cable length: 3 meters  
Maximum cable thickness: 50 mm2  
MTBF: > 500000 hours (40°C)  
DC plug: Mode 4 (IEC-61851-23/24) Combo-2 (DIN10121)  
Protection of housing against external influences: > IK10 according to IEC 62262  
Load balancer: Charging speed is adjusted based on available amount of energy at a given time within the grid connection.

## Operation

Start-Stop: RFID card  
Network interface: Ethernet (standard) / GPRS-UMTS (3G)  
Push button: Emergency stop button  
positioning: GPS