



Description

EVERFLASH CCS is a 50kW ultra-fast DC charger for electric vehicles, which complies with the CCS (Combo 2) charging protocol.

EVERFLASH is an ideal solution for vehicle users, electrical utilities and future petrol stations when a fast charging is required, because it offers much shorter charging times than other solutions.

The **EVERFLASH** electrical power section consists of an AC/DC high frequency power converter with an efficiency of 95%, that with a dedicated mechanical lay-out, makes it possible to use a silent air forced cooling system, as well as a fast and simple installation.

One industrial embedded PC and a user interface with a 5.7" color screen makes the charging procedure very easy and intuitive, showing all the relevant information during the charging process.

Benefits

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

- **Very short charging times**, typically between 15 and 30 minutes.
- **Weather-resistant** thanks to a special coating against corrosion.
- **Very easy and inexpensive maintenance** due to the separation of the cooling system from the power electronics section. No air filters needed.
- **Very low noise levels**, almost inaudible charge.
- **Fully customizable**, color and logo of the customer on request
- Easy charging process guided by a **robust vandal-proof color display**

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

- Usage statistics, including user identification and electrical parameters.
- Remote information of the main parameters during the charging process.
- Remote firmware upgrade.
- OCPP ready



Remote Management



Everflash Charge Station



DC



50 kW



Ultra fast



RFID



www.gheverdrive.com

| INPUT | |
|--------------------------------------|---------------------------------|
| Supply voltage | 400VAC \pm 10%-3 phases+earth |
| Frequency | 50-60Hz \pm 5% |
| Input current | 80A |
| Input power | 55.4kVA |
| Power factor | >0.95 at maximum power |
| OUTPUT | |
| Maximum output power | 50kW |
| Maximum output current | 125A |
| Maximum output voltage | 500V |
| Minimum output voltage | 50V |
| SAFETY AND ELECTRICAL SPECIFICATIONS | |
| Efficiency | 95% ⁽¹⁾ |
| Short-circuit protection | Yes |
| Over-current protection | Yes |
| Differential protection in AC | Yes |
| Differential protection in DC | Yes |
| Emergency Stop button | Yes |
| Isolation system | HF Transformer |
| Charging mode | Mode 4 (IEC 61851-1) |
| Charging protocol | EN61851-23 / DIN 70121 Combo-2 |
| Connector | Combo-2 |
| MECHANICAL SPECIFICATIONS | |
| Housing | Stainless steel |
| Size (height x width x depth) | 1900x800x600mm ⁽²⁾ |
| Weight | 420kg |
| Protection | IP55, IK9 |
| Cooling | Forced air |
| ENVIRONMENTAL CONDITIONS | |
| Environment temperature | -10 to +40°C ⁽³⁾ |
| Maximum humidity | 90% without condensation |

| APPLICABLE STANDARDS | |
|--|---|
| CE certification | |
| USER INTERFACE | |
| Screen | TFT Led 5.7" color display (IK9) |
| Push buttons | Start-stop illuminated push buttons. |
| Information | <ul style="list-style-type: none"> State of Charge of the battery Charging time Estimated remaining time for end of charging and elapsed time Connection failure information Output energy, power, voltage and current |
| User-interface languages | Spanish, English, German, Danish, Norwegian Portuguese. Other languages also available on request |
| COMMUNICATION | |
| Network communication | Ethernet |
| GSM/GPRS modem | Optional |
| Communication protocol | OCPP (Open Charge Point Protocol) |
| IDENTIFICATION SYSTEM | |
| RFID reader | ISO 14443 Type A 13.56MHz / MIFARE ⁽⁴⁾ |
| OPTIONALS | |
| Anti-graffiti coating | On request |
| Low temperature option | -25 to +40°C |
| (1) For rated power | |
| (2) Height with socket of 100mm included. | |
| (3) -25 to +40°C with low temperature option | |
| (4) Other RFID cards under request | |
| Specifications subjected to minor changes. | |

HEADQUARTERS

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