

ENSTO

CHAGO HIGHPOWER

Ultra fast
EV charger



Ensto is a leading solution provider of smart EV charging infrastructure and services. Our thousands of chargers in operation across Europe prove their reliability while contributing to a profitable charging business and a cleaner environment.

www.ensto.com

Description

The ultra fast Chago HighPower is built for speed. It fits the quick charge standards of all European, Asian and North American electric vehicle (EV) manufacturers, while also supporting actual and future generations of EVs which are demanding a higher charge capacity than 50kW. The charger enables simultaneous charging of up to four cars. Two charge points are available for DC quick charging up to 150kW, with another two for AC charging up to 65kW. The DC charging concept is based on a modular rectifier platform, offering the scalability up to 150kW DC. The modularity, quality, product reliability, and remote supervision maximize the uptime of the charge service.

Chago HighPower supports a variety of access and payment systems and is easy to use. As an optimal solution for establishing a universal quick charge network, it builds an efficient quick charge infrastructure for fleet operations such as taxi, car sharing and utility companies, or car dealers who want to provide a real value addition to their customers.

Main features

- Modular scalability to charge next generation cars
- Simultaneous charging of up to four cars
- Dynamic power management to minimize charge time
- Easy to install, operate and service
- Two DC charge points – total up to 150kW DC
- Two AC charge points – total up to 65kW AC
- Local authentication by RFID
- Back-office system integration with OCPP 1.5
- Different plug configurations available

TECHNICAL INFORMATION

1. Input

AC connection	3L + N + PE
AC voltage	400 VRMS (L-L) +/- 10%
Frequency	50 / 60Hz
Current nominal	312 ARMS @ 150kW DC + 65kW AC charge
Power factor	0.99
Mains terminal	Terminal blocks 3L + N + PE
Transient OVP	Class II/C protection

2. DC charge points - CCS & CHAdeMO

DC output voltage range	170 - 500V DC
Maximum charge current	300A DC
Maximum charge power	150kW DC
Cable / access length	3.5m / 2.5m
Protections	Overcurrent circuit breaker Short circuit protection Overvoltage protection Low-voltage protection Isolation monitoring Earth monitoring

3. DC charge point - CCS

Compliance	IEC 61851-23 / -24 IEC 62196-3 DIN 70121
Rating cable & gun	200A DC / 850V DC

4. DC charge point - CHAdeMO

Compliance	IEC 61851-23 / -24 JEVS G 105 Rev. 1.0.1 compliant
Rating cable & gun	125A DC / 500V DC

5. AC charge points

Compliance	IEC 61851-22
AC plug 43kW charge point	IEC 62196-2 Mode 3, Type 2
AC socket 22kW charge pt	IEC 62196-2 Mode 3, Type 2
Nominal AC voltage	400 VRMS
Maximum charge current / power	3 x 63 ARMS @ 43kW point 3 x 32 ARMS @ 22kW point
Cable / access length	3.5m / 2.5m
Protections	RCD Type B Overcurrent circuit breaker Earth monitoring

6. User interface

Display	7" color display
Keypad	5 buttons - backlight
Local authentication	RFID reader

7. Connectivity

Connectivity	Fixline: Ethernet Wireless: GPRS / 3G modem
Back office interface	OCPP 1.5

8. General

Height, overall	2079mm
Width, body	852mm
Depth, overall	998mm
Weight, system	400kg
Protection	IP 55
Enclosure protection	IK 10
Efficiency rectifier	94%
Ambient temperature	- 25 to +45°C
Relative humidity	95% max, non cond.
Compliance & safety	IEC 61851-1
EMC	IEC 61851-21-2 EN 61000-6-1 / -2 / -4

Information subject to change without notice.