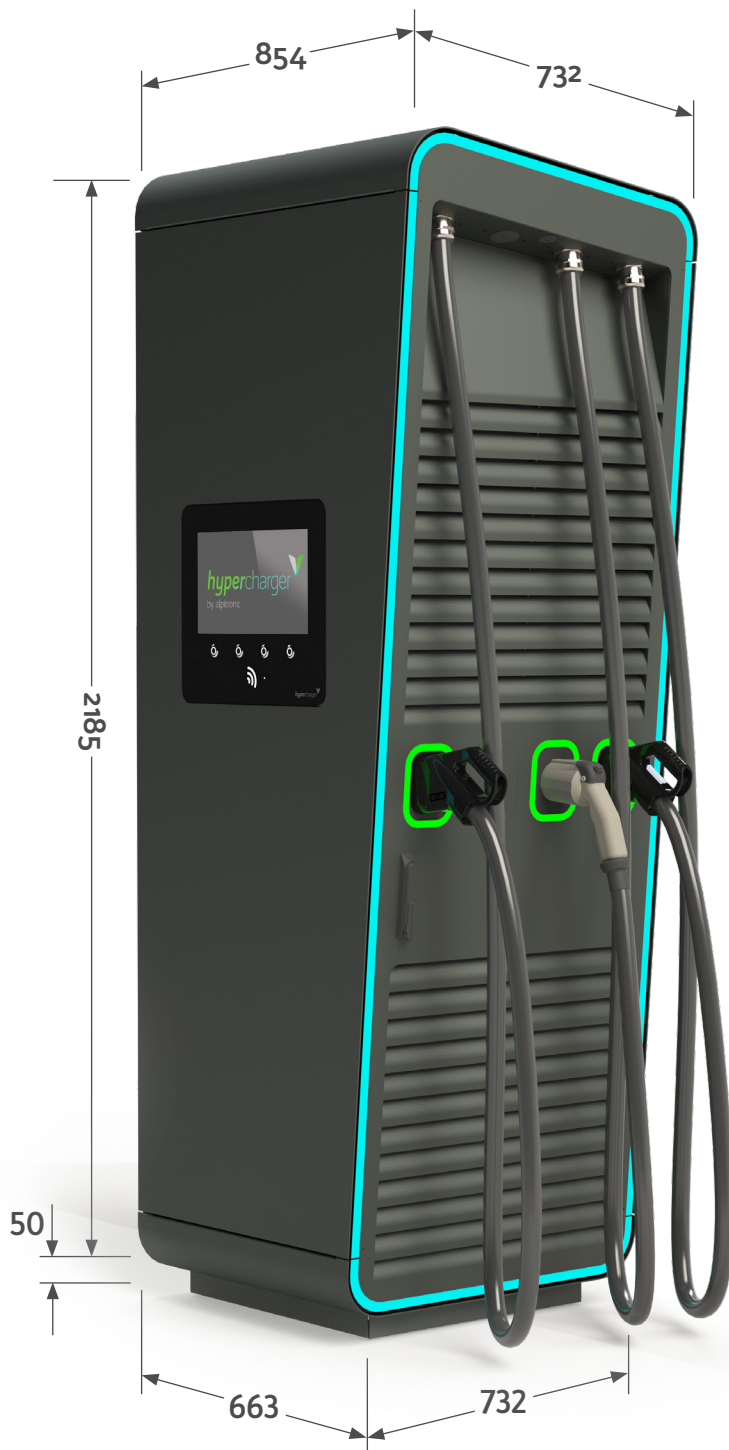


HYC300

75 kW / 300 kW Rapid charging point for electric vehicles

Key features



- Maximum output current up to 500 A
- Full performance from 300 V battery voltage
- Future-proof output voltage range from 150 V to 1000 V
- Highly integrated power electronics in an ultra-compact design
- Option for parallel DC charging
- hypercharger Power-Stack concept enables scalable and retrofittable power levels

*Details in mm

Product data sheet hypercharger 300

© 2021 alpitronic GmbH
Via di Mezzo ai Piani, 33
39100 Bolzano BZ, Italy

info@hypercharger.it
www.hypercharger.it
Tel: +39 0471 096 450

HYC₃₀₀

75 kW / 300 kW Rapid charging point for electric vehicles

Technical data

| SYSTEM SPECIFICATIONS | |
|---|--|
| DC interfaces | CCS2 up to 500 A CHAdeMO up to 200 A CCS1 (for vehicle multicharger) GB/T (for vehicle multicharger) |
| AC interfaces | 22 kW AC socket/cable (optional) |
| Payment system | Choose between different card readers for credit cards or EC cards |
| Load and charging management | Smart, dynamic allocation of power modules and distribution of charging power to charging points |
| Environmental conditions, in operation | -30° up to +55° C (derating from 40° C), Operating height ≤ 2,000 m |
| Environmental conditions, in storage | -40° up to +55° C (1K22*/1Z2/1B1/1C1/1S10/1M10) * Minimum temperature in deviation from the standard |
| Environmental conditions, under transport | -40° up to +70° C (2K12*/2B1/2C1/2S1/2M4) * Minimum temperature in deviation from the standard |
| Humidity (in operation, storage) | 0% - 95% relative (non-condensing) |
| Efficiency | >94% at full charge |
| Protective class | Class I (protective earth connection) |
| Degree of pollution | Class 3 |
| Noise emission | <65 dB(A) at 1m distance @22° C, at full charging (average value throughout entire charging process) Option to set parameters for Silent Mode (reduction of noise emissions by means of power derating) |
| Installation location | Indoor and outdoor installation |
| Type of installation | Floor mounted on plinth or base (optional foundation base in concrete) |
| Protection rating | IP54 |
| Impact resistance | IK10 in accordance with IEC 62262 |
| Dimensions (H x W x D) | 2235 x 732 x 663 mm (footprint) |
| Weight | 375 kg up to 774 kg |
| Accessibility | optional, barrier-free design for the operating elements and plugs in terms of installation height (1,050 mm each) is possible (in accordance with DIN 18040-3) |

HYC₃₀₀

75 kW / 300 kW Rapid charging point for electric vehicles

Technical data

| POWER SUPPLY | |
|--|---|
| AC input voltage | 3x 230 V (400 V) / 50 Hz |
| Mains type | TN-C, TN-S, TN-C-S or TT |
| AC Input current and power (line-side) | 466 A, 320 kW (model) at 300 kW DC output power, maximum 500 A |
| THDi (Total harmonic distortion) | <5% at nominal power |
| Power factor | >0.99 (active PFC input level) |
| Overvoltage category | OVC III, DIN EN 60664-1 |
| Integrated lightning protection | Lightning protection module type 1 + type 2 + type 3 |
| Standby power consumption | ≤90 W* *dependent upon the number of power modules |
| CHARGING INTERFACES | |
| Maximum total DC output power | 75 kW (one Power-Stack), max. 250 A 150 kW (two Power-Stacks), max. 500 A 225 kW (three Power-Stacks), max. 500 A 300 kW (four Power-Stacks), max. 500 A |
| Output DC voltage range | 150 Vdc - 1000 Vdc |
| Output AC voltage range | 3-phase, max. 32 A or 22 kW |
| Charging connection options | DC-Option: max. three cables to be combined from DC cable options CCS2 @250 A CCS2 @400 A (including 500 A boost mode) CCS2 @500 A (water-cooled) max.2x CHAdeMO @125 A or 200 A max.2x CCS1 @200 A GB/T @250 A max.2x IEC 62196 AC-Option: AC charging socket type 2 (with a hinged cover and lock) AC charging cable type 2 (3.5 m or 5 m) IEC 62196 |
| Cable lengths | 3.5 m or 5 m, specific lengths and cable management available on request |
| NORMS AND STANDARDS | |
| Certifications | CE, RED |
| EU Directives | 2014/35/EU (Low Voltage Directive), 2011/65/EU (RoHS), 2017/2102 (RoHS2), 2012/19/EU (WEEE), 1907/2006 (REACH Regulation) |
| Charging and safety standards | IEC 61851-1, IEC 61851-23, IEC 62477-1, IEC 61439-1, IEC TS 61439-7, EN 62311, EN 50364 |
| EMV | IEC 61000-4/-2/-3/-4/-5/-6 (Noise immunity, Industrial field, Class A) IEC 61851-21-2 (Emissions, Class A) IEC 61000-3-12 (Harmonic currents) |
| EMV radio installations | EN 301 489-1/-3, EN 301 489-52, EN 300 330, EN 301 511, EN 301 908-1/-2/-13 |

HYC₃₀₀

75 kW / 300 kW Rapid charging point for electric vehicles

Technical data

| GENERAL | |
|---|--|
| DC standard protocol (communications with the vehicle) | CCS1/2: SAE J1772 / EN 61851-23 / DIN SPEC 70121; ISO 15118 CHAdeMO 1.2 GB/T 27930 (for vehicle multicharger) |
| RFID system | ISO/IEC 14443A: MIFARE Classic EV1 ⁴⁾ , MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1 ¹⁾ , MIFARE Plus S ²⁾ , X ²⁾ , MIFARE Pro X ¹⁾ , MIFARE Smart MX ¹⁾ , MIFARE Ultralight, MIFARE Ultralight C ³⁾ , MIFARE Ultralight EV1 ⁴⁾ , NTAG2xx ⁴⁾ , PayPass ¹⁾ , SLE44R35 ¹⁾ , SLE66Rxx (my-d move) ¹⁾ , LEGIC Advant ¹⁾ ¹⁾ only UID ²⁾ Security level support ³⁾ without encryption ⁴⁾ r/w extended security options available upon request |
| Network connections | 2G/3G/4G GSM-/CDMA modem, 10/100Base T-ethernet |
| Communications protocol for the charging infrastructure | Open Charge Point Protocol (OCPP) 1.6 JSON |
| User interface | 15.6" display, 4 buttons |
| Useful life | min. 10 years (not including wear parts) |
| CONFIGURATION OPTIONS | |
| Branding | Options for custom colours (powder coating), foil application and stickers |
| Law on Weights and Measurements | DC and AC meters available in accordance with German Law on Weights and Measurements |
| Parametrisation of noise levels | Parameters can be set for the maximum noise level for day and night operation (eg. for use in sensitive areas) |
| Additional safety features | Emergency stop button (optional), external emergency stop, crash (tilt) sensor, door switch |
| Remote Management | Remote access, diagnostics, software updates |