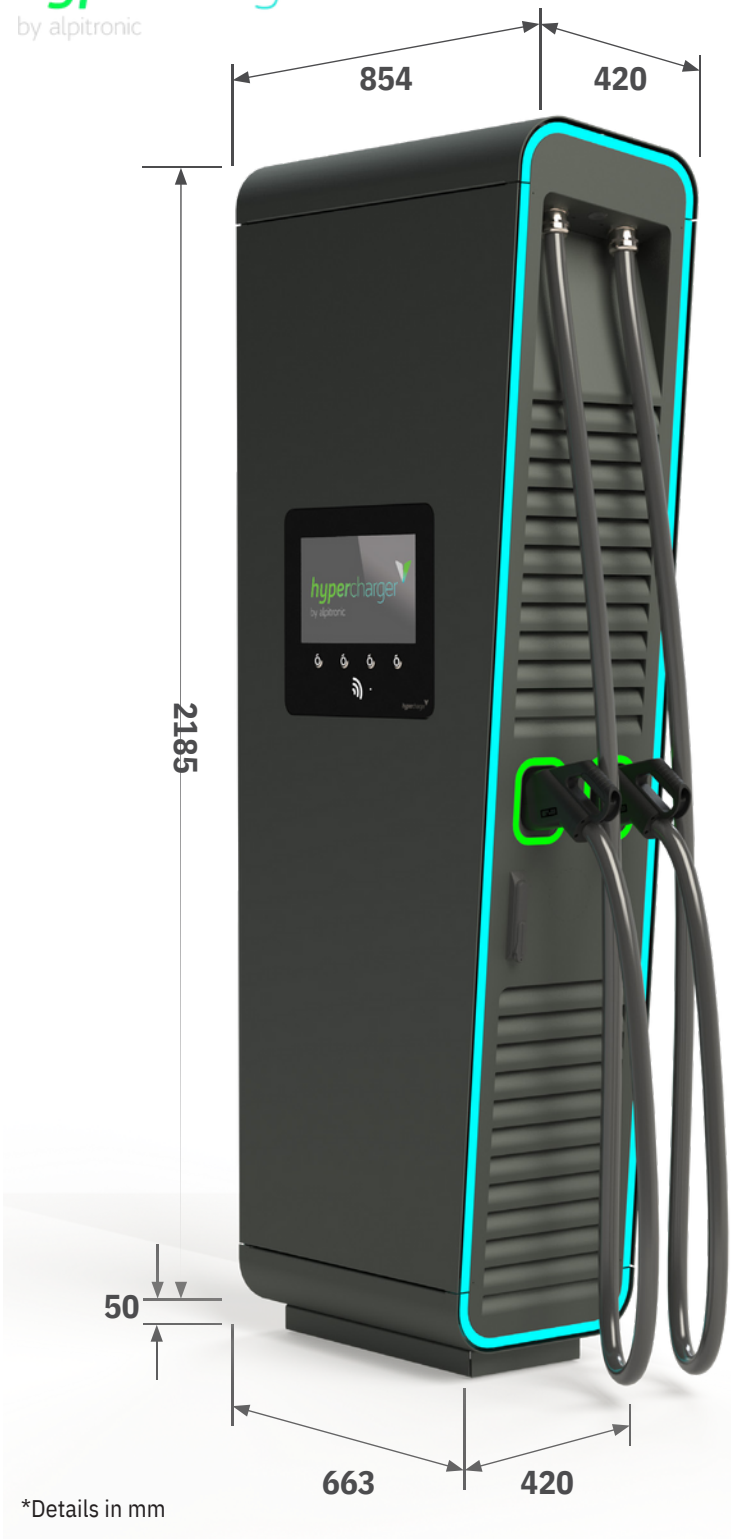
Product data sheet

HYC150

75 kW / 150 kW Rapid charging point for electric vehicles

hypercharger
by alpitronic



*Details in mm

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

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Technical data

SYSTEM SPECIFICATIONS	
DC interfaces	CCS2 up to 500 A CHAdeMO up to 200 A
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	<62 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 420 x 663 mm (footprint)
Weight	325 kg up to 462 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)

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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)	233 A, 160 kW (model) at 150 kW DC output power, maximum 250 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 Standby	Lightning protection module type 1 + type 2 + type 3
power consumption	≤60 W* *dependent upon the number of power modules
CHARGING INTERFACE	
Maximum total DC output power	75 kW (one Power-Stack), max. 250 A 150 kW (two Power-Stacks), max. 500 A
Output DC voltage range	150Vdc - 1000Vdc
Output AC voltage range	3-phase, max. 32 A or 22 kW
Charging connection options	DC-Option: max. two 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. 1 x CHAdeMO @125 A or 200 A max. 1 x CCS1 @200 A GB/T @250 A max. 1 x 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	
Cer tifications	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

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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 EV14), MIFARE Classic, MIFARE Mini, MIFARE DESFire EV11), MIFARE Plus S2), X2), MIFARE Pro X1), MIFARE Smart MX1), MIFARE Ultralight, MIFARE Ultralight C3), MIFARE Ultralight EV14), NTAG2xx4), PayPass1), SLE44R351), SLE66Rxx (my-d move)1), LEGIC Advant1) *
Network connections	2G/3G/4G GSM-/CDMA modem, 10/100Base T-
Communications protocol for the charging infrastructure	ethernet 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 & 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 & night operation (e.g. for use in sensitive areas)
Additional safety features	Emergency stop button (optional), external emergency stop, crash (tilt) sensor, door switc
Remote Management	Remote access, diagnostics, software updates

* r/w extended security
1) only UID 2)Security level support 3)without encryption
options available upon request

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