# hypercharger by alpitronic

### HYC150

75 kW / 150 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



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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	Lightning protection module type 1 + type 2 + type 3	
Standby 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		
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	





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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 EV1 <sup>4</sup> , MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1 <sup>1</sup> , MIFARE Plus S <sup>2</sup> , X <sup>2</sup> , MIFARE Pro X <sup>1</sup> , MIFARE Smart MX <sup>1</sup> , MIFARE Ultralight, MIFARE Ultralight C <sup>3</sup> , MIFARE Ultralight EV1 <sup>4</sup> , NTAG2xx <sup>4</sup> , PayPass <sup>1</sup> , SLE44R35 <sup>1</sup> , SLE66Rxx (my-d move) <sup>1</sup> , LEGIC Advant <sup>1</sup> ) <sup>1</sup> Only UID <sup>2</sup> Security level support <sup>3</sup> without encryption <sup>4</sup> 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 switc	
Remote Management	Remote access, diagnostics, software updates	