

RAPID 420

Ultra-fast charging points that allow simultaneous charging of up to two vehicles

	RAPID 420			
	ONE	DUO	DUO/3	DUO/4
Connectors	1	2	2 & 1	2 & 2
Simultaneous charging		✓	✓	✓
Left side connector	...	...	NACS or CHAdeMO	NACS or CHAdeMO
Left front connector	CCS or NACS	CCS or NACS	CCS or NACS	CCS or NACS
Right front connector	...	CCS or NACS	CCS or NACS	CCS or NACS
Right side connector	...	...	...	NACS



RAPID 420 FEATURES

Functions

- Excellent power density standalone charger.
- Highly resistant enclosure, either galvanized steel or stainless steel.
- Up to 4 cables in the same charger (up to 2 vehicles to be charged simultaneously).
- Flexibility to combine CCS, NACS & CHAdeMO connectors.
- Simultaneous DC charging:
 - Up to 2 vehicles at the same time.
 - Possibility of granular split of power with increments of 60 kW.
- Integrated DC wattmeters.
- Configurable power versions: 420 kW, 360 kW, 300 kW & 240 kW.
- Configuration focused on the ease of use for the installer.

Communications and software

- DLM, static and dynamic power management with other Ingeteam DC and AC units.
- Web Manager.
- Modbus TCP, MQTT.
- Automatic software updates.
- Update via USB, Web Manager & OCPP.
- 31,5" Full HD advertising screen.

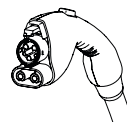
Safety

- Built-in electrical protections.
- Security lock with key.
- Door-opening sensor.

Options

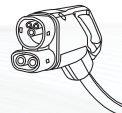
- C-Fly System (Cable Fly System) useable length 5,4 m front, 4,7 m side.
- GPRS - 4G communication.
- Ethernet switch kit for 8 ports.
- Contactless bank card reader.
- Emergency button.
- Parked vehicle detector.
- Smart DLM.
- Cloud Manager.

CONNECTORS



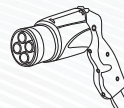
CCS1

CCS Type 1
380 A Dry cooling
500 A Liquid cooling



CCS2

CCS Type 2
380 A Dry cooling
500 A Liquid cooling



CHA

CHAdeMO 200 A



NACS

380 A Dry cooling
500 A Liquid cooling



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420 kW
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360 kW
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300 kW
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240 kW

AC INPUT

Voltage IEC models	3 phases + PE; 380/400 Vac $\pm 15\%$			
Voltage UL models	3 phases + PE; 480 Vac $\pm 15\%$			
Frequency	50/60 Hz $\pm 5\%$			
Rated current IEC version	637 A	546 A	455 A	364 A
Rated current UL version	530 A	455 A	379 A	303 A

DC OUTPUT

Voltage range	150 - 1.000 V			
Maximum number of simultaneous charges	2			
Maximum number of connectors	2+2			
Rated current per charge	500 A	500 A	500 A	500 A
Maximum power	420 kW	360 kW	300 kW	240 kW
Dynamic power (granularity)	minimum 90 kW + increments 60 kW	minimum 60 kW + increments 60 kW	minimum 30 kW + increments 60 kW	minimum 60 kW + increments 60 kW
Charging connectors (nominal currents)	Output 1 (left) any combination		Output 2 (right) any combination	
	Side connector	Front connector	Front connector	Side connector
	NACS 375 A	CCS2 375 A	CCS2 375 A	NACS 375 A
	NACS 500 A*	CCS2 500 A*	CCS2 500 A*	NACS 500 A*
	CHAdeMO 200 A	CCS1 375 A	CCS1 375 A	
		CCS1 500 A*	CCS1 500 A*	
		NACS 375 A	NACS 375 A	
liquid cooling cable		NACS 500 A	NACS 500 A*	

REGULATIONS AND SAFETY

Standards	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24, IEC 62196-2, IEC 62196-3, IEC 61000, DIN 70121, ISO 15118, UL2231-1, UL2231-2 CTEP
Overcurrent (Isc)	50 kA (other options, please consult)
Indirect contacts	Differential protections 30 mA Type A auxiliary services Adjustable differential protections of 30 mA to 3 A Type A main power supply
Overvoltages	Type 2 permanent and transient overvoltage protection, both DC inputs and DC outputs

FUNCTIONALITIES AND ACCESSORIES

Communication interfaces	Ethernet, GPRS - 4G (optional), double SIM (optional)
Communication protocols	OCPP 1.6, 2.0.1, Modbus RTU, Modbus TCP, MQTT
HMI	31,5" color touchscreen, multi-language RFID reader (Mifare Classic 1K&4K, Mifare DesFire EV1, NFC) RGB status LEDs Contactless bank card reader (optional) ¹
Advertising screen	31,5" Full HD
Plug & Charge	Yes

GENERAL INFORMATION

Stand-by consumption	Pending
Efficiency and power factor	95% a rated power; > 0,98
Energy measurement	DC (MID) meter ⁽²⁾
Cable length	With C-Fly System, usable length 5,4 m front 4,7 m side
Operating temperature	-35°C to 55°C (derating from 40°C)
Humidity	< 95%
Maximum altitude	2,000 m (for higher altitudes, consult Ingeteam)
Weight	1,000 Kgs
Dimensions (h x w x d)	2,500 x 900 x 800 mm
Enclosure	Galvanized steel or stainless steel (optional)
Protection class	IP54 / IK10 (display IK08) / C5H
Markings	CE / UL (optional)
Directives	Low Voltage Directive: 2014/35/EU EMC Directive: 2014/30/EU RED Directive 2014/53/EU

Notes

⁽¹⁾ Worldline EP2 or Payter Apollo, PAX IM30.

⁽²⁾ MID certification, Eichrecht certification and CTEP in development.