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Ultra-fast charging points that allow up to three vehicles to be charged simultaneously

Being able to respond to current market needs is always a challenge, which requires constant transformation. In order to develop the new RAPID range, at Ingeteam, we asked ourselves countless new questions, as these new units had to cover not only current but also future needs in a constantly evolving sector.

Ingeteam presents the new range dRAPID 180 kW chargers for ultra-fast charging to match the potential of the most demanding vehicles. They have been designed to meet the highest quality and performance standards in terms of power management, communications, reliability and efficiency.

They are compatible with the CCS and CHAdeMO standards. The Trio models also incorporate a 22 kW Type 2 socket for alternating current charging, allowing up to three vehicles to be charged simultaneously. Moreover, they feature power management between the different outputs on the unit, or between various units in one installation.

	RAPID 180			
	One	One+	Duo	Trio
Number of connectors	1	2	2	3
Simultaneous charging		✓	✓	✓
Charging connectors	CCS ⁽¹⁾	CCS + AC T2S	CCS + CCS CCS + CHAdeMO	CCS + CCS + AC T2S CHAdeMO + CCS + AC T2S ⁽²⁾

Notes

- (1) In the RAPID 180 One, the cable can only be connected to the DC connector on the right side.
- (2) The CHAdeMO connector can only be used on the DC connector on the left side.



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Premios ADI 2022



RAPID 180 FEATURES

Functions

- Highly resistant enclosure, either galvanized steel or stainless steel.
- Modular electronics. The 120 kW units can be expanded to 180 kW.
- Cable management system.
- Simultaneous AC and DC charging:
 - DC: DC charging at 180 kW.
Dual charging at 90 kW.
CHAdeMO up to 80 kW.
 - AC: 22 kW.
- DC wattmeters.
- AC MID wattmeters or Eichrecht.
- Possibility to connect two conductors per phase at the power supply.
- ISO 15118-1,2,3,4,5 (Air compliant)⁽²⁾

HMI

- RGB status LEDs.
- RFID reader.
- 7" color touchscreen, multi-language.

Communications and software

- Ethernet, RS485.
- OCPP, Autocharge, Plug & Charge.

Notes:

- ⁽¹⁾ MID certification, Eichrecht compliance, and compatibility with the French market available.
- ⁽²⁾ ISO 15118-20 Ready.

- DLM, static and dynamic power management with other Ingeteam DC and AC units.
- Web Manager.
- Modbus TCP, MQTT.
- Automatic software updates.
- Update via USB.

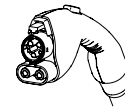
Safety

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

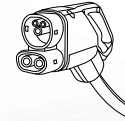
Options

- GPRS - 2G/3G/4G communication.
- Ethernet switch kit for 8 ports.
- Contactless bank card reader.
- Emergency button.
- 21" Full HD advertising screen.
- Parked vehicle detector.
- Smart DLM.
- Cloud Manager.
- Surrounding ring with ambient lighting.

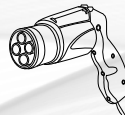
CONNECTORS



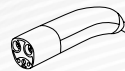
CCS1
200 A⁽¹⁾
380 A⁽¹⁾



CCS2
250 A
380 A



CHAdeMO
200 A⁽²⁾



NACS
250 A⁽¹⁾
380 A⁽¹⁾

AC 22 kW
Type 2 socket with
shutters 32 A

Notes:

- ⁽¹⁾ Only available in UL models.
- ⁽²⁾ CHAdeMO can only be connected to the DC connector on the left side.



2,271 mm

730 mm

774 mm



	RAPID 180 90 kW	RAPID 180 120 kW	RAPID 180 150 kW	RAPID 180 180 kW
AC INPUT				
Voltage	3 phases + N + PE; 380/400 Vac ±15%			
Frequency	50/60 Hz ±5%			
Rated current	175 A (143 A + 32 A)	222 A (190 A + 32 A)	270 A (238 A + 32 A)	312 A (280 A + 32 A)
Rated power	112 kW (90 kW + 22 kW)	142 kW (120 kW + 22 kW)	172 kW (150 kW + 22 kW)	202 kW (180 kW + 22 kW)
OUTPUTS				
Maximum number of connectors	3			
Maximum number of simultaneous charging	3			
DC OUTPUT				
Voltage range	150 - 1,000 V			
Maximum current	300 A (200 A + 100 A) 1 x 300 A @boost	400 A (200 A + 200 A) 1 x 400 A @boost	500 A (300 A + 200 A) 1 x 500 A @boost	600 A (300 A + 300 A) 1 x 500 A @boost
Maximum power	90 kW (60 kW + 30 kW)	120 kW (60 kW + 60 kW)	150 kW (90 kW + 60 kW)	180 kW (90 kW + 90 kW)
Charging connectors	CCS CCS + CCS CHAdeMO + CCS			
AC OUTPUT (OPTIONAL)				
Voltage	230/400 Vac ± 15%			
Maximum current	32 A			
Maximum power	22 kW			
Charging connectors	Type 2 socket with shutters			
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, ISO15118-1,2,3,4,5, Eichrecht			
Overcurrent	Curve C circuit breaker protections (25 kA)			
Indirect contacts	300/30 mA Type A (DC) differential protections			
Overvoltages	30 mA Type B (AC) differential protections			
FUNCTIONALITIES AND ACCESSORIES				
Communication interfaces	Ethernet, RS485, GPRS - 2G/3G/4G (optional), dual SIM (optional)			
Communication protocols	OCPP 1.6, OCPP 2.0.1, Modbus RTU, Modbus TCP, MQTT			
HMI	7" color touchscreen, multi-language RFID reader (Mifare Classic 1K&4K, Mifare DesFire EV1, NFC) RGB status LEDs Contactless bank card reader (optional)			
Advertising screen	21" Full HD (optional)			
Plug & Charge (ISO 15118)	Yes			
GENERAL INFORMATION				
Stand-by consumption	< 150 W			
Efficiency and power factor	> 95% at rated power; > 0.98			
Energy measurement	AC (MID) and DC meter			
Hose length	6.5 m (4.3 m usable length with pole) and 3.75 m usable with retractable arm ⁽¹⁾			
Operating temperature	-25 °C to 55 °C (derating from 40 °C) Low temperature kit at -35 °C (optional)			
Humidity	< 95%			
Maximum altitude	2,000 m (for higher altitudes, consult Ingeteam)			
Weight	400 kg	420 kg	442 kg	465 kg
Dimensions (h x w x d)	2.030 x 779 x 727 mm (without ring) 2.271 x 779 x 727 mm (with ring) 2.285 x 804 x 964 mm (with ring and CMS with retractable arm)			
Enclosure	Galvanized steel or stainless steel (optional)			
Protection class	IP54 / IK10 (IK08 display) / C5H			
Markings	CE			
Directives	Low Voltage Directive: 2014/35/EU EMC Directive: 2014/30/EU RED Directive 2014/53/EU			

Notes
⁽¹⁾ CHAdeMO can only be used on the DC connector on the left side.

⁽²⁾ To be confirmed with Ingeteam.

⁽³⁾ MID certification, Eichrecht compliance, and compatibility with

the French market available.

⁽⁴⁾ 10 m (9.5 m usable) cable or optional 6.5 m (6 m usable) cable without cable management system (CMS).