

RAPID 120/180

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 of **RAPID 120 kW and 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 120 / 180			
	One	One+	Duo	Trio
Connectors	1	2	2	3
Simultaneous charging	✓	✓	✓	✓
Connector type	CCS	CCS + AC T2S	CCS + CCS CCS + CHAdeMO	CCS + CCS + AC CCS + CHAdeMO + AC



RAPID 120/180

RAPID 120/180 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 (CMS).
- Ambient light.
- Simultaneous AC and DC charging:
 - DC: DC charging at 180 kW.
Dual charging at 90 kW.
CHAdeMO up to 80 kW.
 - AC: 22 kW.
- Integrated DC wattmeters.
- AC MID wattmeters.

HMI

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

Communications and software

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

- 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.

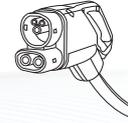
Options

- 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.

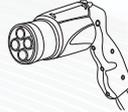
CONNECTORS



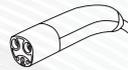
CCS1 200
CCS Type 1 200 A



CCS2 250
CCS Type 2 250 A



CHA200
CHAdeMO 200 A



NACS



AC 22 kW
Type 2 socket
with shutters



2,300 mm

730 mm

774 mm


RAPID 120
RAPID 180
AC INPUT

Voltage	3 phases + N + PE; 380/400 Vac ±15%	
Frequency	50/60 Hz ±5%	
Rated current	222 A (190 A + 32 A)	312 A (280 A + 32 A)
Rated power	142 A (120 kW + 22 kW)	202 A (180 kW + 22 kW)

DC OUTPUT

Voltage range	150 - 1,000 V	
Maximum current	400 A (200 + 200 A) 1 x 500 A @boost	500 A (250 + 250 A) 1 x 500 A @boost
Maximum power	120 kW (60 + 60 kW)	180 kW (90 + 90 kW)
Charging connectors	CCS CCS + CCS CCS + CHAdeMO	

AC OUTPUT (OPTIONAL)

Voltage	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, ISO 15118
Overcurrent	Curve C circuit breaker protections (25 kA)
Indirect contacts	30 mA Type A (DC) differential protections 30 mA Type B (AC) differential protections
Overvoltages	Type 2 protection against permanent and transient overvoltages, both on DC inputs and outputs

FUNCTIONALITIES AND ACCESSORIES

Communication interfaces	Ethernet, RS485, GPRS - 2G/3G/4G (optional), dual SIM (optional)
Communication protocols	OCPP 1.6, 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	Yes

GENERAL INFORMATION

Stand-by consumption	< 60 W	< 85 W
Efficiency and power factor	> 95% at rated power; > 0.98	
Energy measurement	AC (MID) and DC meter ⁽¹⁾	
Hose length	6.5 m (4,6 m usable length) with cable management system (CMS) included ⁽²⁾	
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	380 kg	420 kg
Dimensions (h x w x d)	2300 x 774 x 730 mm	
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⁾ MID certification (optional) and Eichrecht certification in process.

⁽²⁾ Optional 10 m without cable management system (CMS).