

RAPID 120/180

Changing the answer is EVOLUTION



In order to face the ongoing challenge of responding to the ever-changing needs of the market, constant transformation is required. For the development of the innovative RAPID range, at Ingeteam we asked ourselves endless new questions, given that these new charging stations needed to meet current and future needs alike, in a sector in rapid and constant evolution.

Ingeteam is now proud to present its new range of **Ingeteam RAPID 120 kW and 180 kW ultra-rapid chargers**, created to supply the power to even the most demanding vehicles. The RAPID charging stations have been designed to comply with the highest quality standards and to offer the best performance in terms of power management, communications, reliability and efficiency.

The chargers are compatible with the CCS and CHAdeMO standards, with the option of one or two cables in DC charging mode. Furthermore, the Trio models are fitted with a 22 kW Type 2 socket for AC charging, allowing the simultaneous charging of up to three vehicles. Likewise, power management is available either between the different charger outputs or between various chargers installed at the same location.

	RAPID 120/180 Duo	RAPID 120/180 Trio
Connectors	2	3
Simultaneous charging	✓	✓
Connector types	CCS + CCS CCS + CHAdeMO	CCS + CCS + AC CCS + CHAdeMO + AC

KEY FEATURES

- Modular electronics. The 120 kW chargers are upgradable to 180 kW.
- CCS charging up to 180 kW. Option of dual CCS.
- Charging in CHAdeMO, up to 80 kW. Only for Duo chargers.
- Auto-retractable cable system.
- AC charging up to 22 kW with Type 2 socket in chargers.
- RGB LED status indicators.
- RFID reader.
- Multi-language 7" colour touchscreen.
- MID wattmeters.
- Simultaneous charging at all available power outlets.
- Robust stainless steel enclosure.

COMMUNICATIONS

- RS 485, Ethernet (switch mode).
- Modbus, MQTT, OCPP.
- Automatic software updates throughout the product lifetime.

SAFETY

- RCD and MCB protections against indirect contact, short-circuits and overloads.
- Transient and permanent surge protectors, Type 2.
- High visibility emergency button to guarantee safety of use.

OPTIONS

- Auto-recloser RCDs.
- Connector locking system for CCS2 and CHAdeMO.
- 3G/4G remote communication.
- Contactless bank card reader.
- 21" advertising screen.
- Smart DLM.
- Vehicle detection.

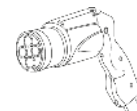
CONNECTOR TYPES



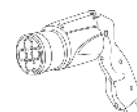
CCS1 300
CCS Type 1 300 A



CCS2 300
CCS Type 2 300 A



CHA125
CHAdeMO 125 A



CHA200
CHAdeMO 200 A



AC 22 kW
Socket Type 2
with shutters

Changing the question is REVOLUTION

	RAPID 120	RAPID 180
AC Inputs		
Voltage	AC 3ph.+ N + PE; 380/400/480 Vac ± 15%	
Frequency	50/60 Hz ± 5%	
Rated Current	190 A + 32 A	280 A + 32 A
Rated Power	120 kW + 22 kW	180 kW + 22 kW
DC Output		
Voltage range	150 ~ 1000 V	
Maximum Current	400A (200A+200A) @boost 500A according to time	600A (300A+300A) @boost 1x500A according to time 30 kW + 30 kW dual DC charge
Maximum Power	1 x 120 kW / 2 x 60 kW	1 x 180 kW / 2 x 90 kW
Charging connectors	CCS1/CCS2 (300 A) / CHAdeMO (125, 200 A) / 22kW AC Mode 3 Type 2 socket	
AC Output (optional)		
Maximum current	32A	
Maximum Power	22kW	
Charging connectors	AC Mode 3 Type 2 socket with shutters	
Regulations and safety compliance		
Standards	"IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000, ISO15118, UL2202"	
Overcurrent	MCB	
Indirect contacts	"DC leakage control IEC 62955 Leakage device - 30 mA class A / class B RCD"	
Overvoltages	"Type 2 protection against permanent and transient overvoltages both on DC inputs and outputs"	
Functionalities and accesories		
Connection	Ethernet, 3G/4G modem (optional)	
Communication Protocol	OCPP (standard and custom versions)	
Advertising screen	21" Full HD (optional)	
HMI	7" touchscreen, RFID (Mifare Classic 1K&4K, MifareDesFire EV1, NFC)	
Payment terminal	Bank card reader (Optional)	
Centralized communications for various chargers (Switch)	8-Connection Ethernet switch for installation	
Parked vehicle detector	Parked vehicle detector up to 2 spaces	
Repowering modules for RAPID 60-120 units	Repowering kit to increase the power of the unit up to 180 kW	
Kit for the connection of two conductors per phase	Kit for the connection of two connectors in each phase.	
General information		
Stand-by consumption	<250W	<330W
Retractable hose system	Included	
Hose lenght	6.5 m (4.5 m usable length without touching the ground)	
Energy measurement	AC (MID) and DC output measurements	
Operating temperature	-35°C ~ 55°C (high and low temperature kit option)	
Humidity	< 95%	
Weight	420 kg	465 kg
Dimensions (W x D x H)	2271 x 774 x 730 mm	
Enclosure	430 stainless steel and aluminum	
Operating height	2000 m (for higher altitudes, consult Ingeteam)	
Protection class	IP54 / IK10 (IK08 display) / C5H	
Markings	CE / MET pursuant to UL2202 (Q3 2023)	
Directives	"Low Voltage Directives: 2014/35/EU EMC Directive: 2014/30/EU RED Directive: 2014/53/EU"	