



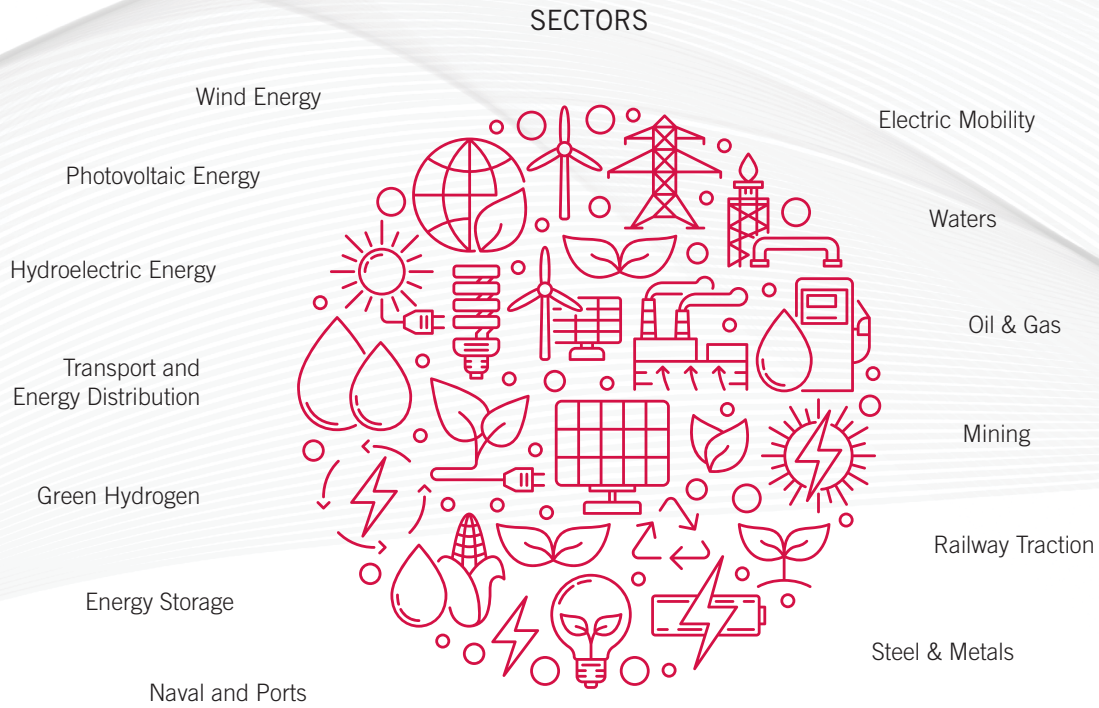
**CHARGING SOLUTIONS
FOR ELECTRIC VEHICLES**

Ingeteam

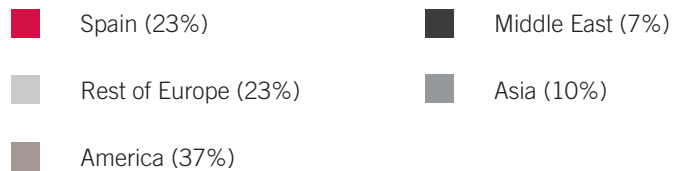
INNOVATION FOR OUR CUSTOMERS

INGETEAM is an international technology group specializing in **electrical energy conversion**.

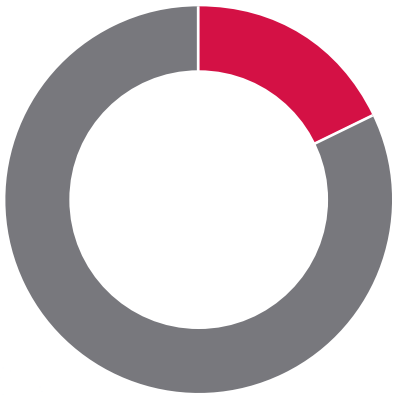
Its technological developments in **power and control electronics** (inverters, frequency converters, controllers and protections), **rotating electrical machines** (motors, generators and motor-pump sets), **systems** (integration of electro-mechanical and automation engineering) and operation and maintenance **services**, allows it to offer solutions for the following sectors: wind, photovoltaic, hydroelectric and fossil generation, metal transformation industry, naval, railway traction, waters, electric vehicle charging, green hydrogen and electric power grids, including substations covering transport and distribution, always seeking more efficient energy generation and consumption.





Global billing



Final destination of products/services



-  Spain (18%)
-  Rest of world (82%)

Charging point models

FUSION



RAPID 60



RAPID 120/180



RAPID ST



SEE OUR
COMPLETE RANGE
OF INGETEM
RECHARGING
POINTS



FUSION



The charging point in public and private settings

The **FUSION range** is available in two versions, **FUSION Street** for installation on the ground, and **FUSION Wall** for installation on the wall.

It is the range of dual units designed to meet all the requirements of electric vehicle charging in public and private settings.

It incorporates Ethernet and Wi-Fi communications as standard, as well as advanced latest generation functions such as Dynamic Load Management 2.0 (DLM 2.0) and OCPP protocols.

Grid	FUSION Street/Wall	
	FS1MW / FW1MW	FS3MW / FW3MW
	Single phase	Three phase
MID wattmeter	✓	✓
Manual Type A differential protection ⁽¹⁾	✓	✓
Overcurrent protection (Curve C)	✓	✓

Notes

⁽¹⁾ Optionally, the differentials can be Type A resettable or Type B.



FUSION FEATURES

Functions

- Ground and wall versions, suitable for outdoor use.
- Front door for easy operation and maintenance.
- Single-phase and three-phase versions with up to 32 amps per socket.
- Multiple sockets available, mode 1&2 sockets, mode 3 cables and sockets.
- MID wattmeters.
- Warning message in case of power outage.
- Possible customization using vinyls on the four sides⁽¹⁾.

HMI

- RGB status LEDs.
- RFID reader.
- 4.3" color screen, multi-language.

Communications and software

- Dual Ethernet port with Switch mode.

Notes:

- ⁽¹⁾ Large surface where vinyl can be applied.
⁽²⁾ 5 m optional.

- Wi-Fi.
- OCPP.
- 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

- Differential protections and circuit breakers.
- Main switch for quick disconnection of the charger.
- Security lock with key.
- Door-opening sensor.

Options

- GPRS - 2G/3G/4G communication.
- Contactless bank card reader.
- DC leak detector.
- Type A self-resetting differentials or Type B differentials.
- Smart DLM.
- Cloud Manager.

CONNECTORS



N2
Socket Type 2



S2
Type 2 socket with shutters



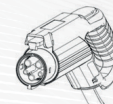
N4
CEE 7/3 Type F socket (Schuko)



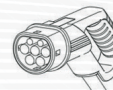
N7
CEE 7/5 Type E socket (Schuko)



S5
N7 and S2



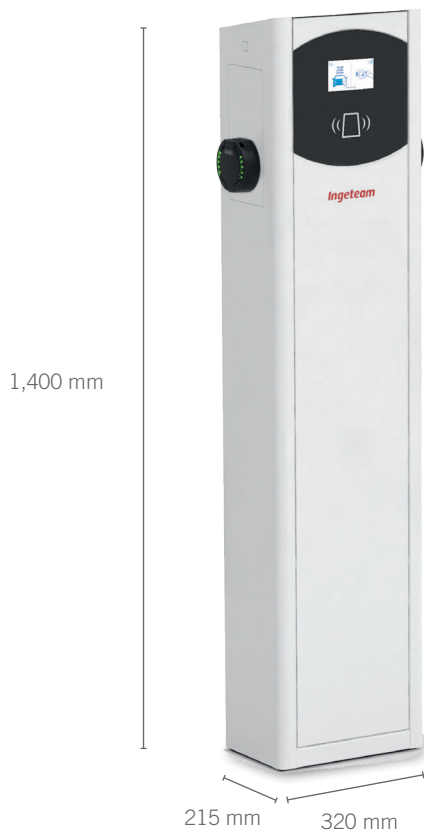
C1
Type 1 cable (4 m)⁽²⁾



C2
Type 2 cable (4 m)⁽²⁾



NACS



	FUSION Street		FUSION Wall	
INPUTS AND OUTPUTS	Single-phase (FS1)	Three-phase (FS3)	Single-phase (FW1)	Three-phase (FW3)
Voltage	1 phase + N + PE 230 Vac ±15%	3 phases + N + PE 400 Vac ±15%	1 phase + N + PE 230 Vac ±15%	3 phases + N + PE 400 Vac ±15%
Frequency	50/60 Hz			
Rated current	64 A (32 A + 32 A)			
Rated power	14.8 kW (7.4 kW + 7.4 kW)	44 kW (22 kW + 22 kW)	14.8 kW (7.4 kW + 7.4 kW)	44 kW (22 kW + 22 kW)
Charging connectors	Configurable (Type 1 and 2 cables; Type 2 sockets, CEE 7/3 Type F, CEE 7/5 Type E)			
Charging mode	Modes 1, 2 and 3 according to installed sockets			
REGULATIONS AND SAFETY				
Standards	IEC-61851-1, IEC-61851-21-2, IEC-62196-2, IEC-61000			
Overcurrent	40 A Curve C circuit breaker protections (10 kA)			
Indirect contacts	30mA type A differential protections ⁽¹⁾ DC leak detector (optional)			
Overvoltages	Overvoltage protection Type III			
FUNCTIONALITIES AND ACCESSORIES				
Communication interfaces	Ethernet (Switch mode) and Wi-Fi GPRS - 2G/3G/4G (optional)			
Communication protocols	OCPP 1.6, 2.0.1, Modbus RTU, Modbus TCP, MQTT			
HMI	4.3" color screen, multi-language RFID reader (Mifare Classic 1K&4K, MifareDesFire EV1, NFC) Contactless bank card reader (optional)			
GENERAL INFORMATION				
Stand-by consumption	< 10 W			
Energy measurement	2 x MID wattmeters			
Operating temperature	-25 °C to 50 °C			
Humidity	< 95%			
Maximum altitude	2,000 m (for heights above this, consult Ingeteam)			
Weight	33 kg (2 x Type 2)	33 kg (2 x Type 2)	24 kg (2 x Type 2)	24 kg (2 x Type 2)
Dimensions (h x w x d)	1400 x 320 x 215 mm	1400 x 320 x 215 mm	800 x 320 x 215 mm	800 x 320 x 215 mm
Enclosure	Galvanized steel RAL 9003			
Protection class	IP54 / IK10 / C5H			
Markings	CE			
Directives	Low Voltage Directive: 2014/35/EU EMC Directive: 2014/30/EU RED Directive 2014/53/EU			

Notes

⁽¹⁾ Optionally, the differentials can be Type A resettable or Type B.



RAPID 60





Fast charging solutions for all types of urban and inter-urban environments. Ideal for reduced spaces.

With increasingly efficient vehicles, and with the emergence of new mobility scenarios, at Ingeteam, we have reimagined fast charging. Ingeteam presents the new range of RAPID 60 kW chargers, capable of charging a single vehicle at 60 kW or two vehicles simultaneously at 30 kW. El **new RAPID 60** is a solid and robust charger, designed to resist the most demanding conditions thanks to its construction in galvanized steel and stainless steel. The result is a compact, silent, light and elegant unit, featuring a modern design with clean lines.

The lack of rear ventilation slots means it can be installed against the wall, or with back to back with another RAPID 60. The main design premise was to achieve a silent unit, so that it could be installed in enclosed or urban spaces. It also has a cable management system (CMS) to make it easier to use. This unit is technologically ahead of its time, featuring credit card readers, parking sensors and Plug & Charge technology, not forgetting the dynamic load management between the unit's outputs, between multiple DC and AC units, as well as dynamic balancing with the installation's remaining loads.

	RAPID 60			
	One	One+	Duo	Trio
Connectors	1	2	2	3
Simultaneous charging	✓	✓	✓	✓
Connector type	CCS	CCS + AC T2S	CCS + CCS CCS + CHAdeMO	CCS + CCS + AC T2S CCS + CHAdeMO + AC T2S

RAPID 60 IN DATA

Functions

- Highly resistant enclosure, either galvanized steel or stainless steel.
- No ventilation slots on the back, can be installed against the wall or two units back to back.
- Can be positioned with a crane and pallet truck.
- Cable management system (CMS).
- Simultaneous AC and DC charging:
 - DC: DC charging at 60 kW.
Dual charging at 30 kW.
 - AC: 22 kW.
- Integrated DC wattmeters.
- AC MID wattmeter.

HMI

- RGB status LEDs on supports and 360° ring.
- RFID reader.
- 10.1" color touchscreen, multi-language.

Communications and software

- Dual Ethernet port with Switch mode.
- 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.

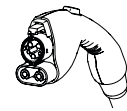
Safety

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

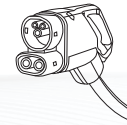
Options

- GPRS - 2G/3G/4G communication.
- Ethernet switch kit for 8 ports.
- Contactless bank card reader.
- Emergency button.
- Connector locking system.
- Parked vehicle detector.
- Self-resetting differentials.
- Smart DLM.
- Cloud Manager.

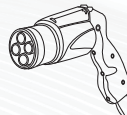
CONNECTORS



CCS1 150
CCS Type 1 150 A



CCS2 150
CCS Type 2 150 A



Cha125
ChadeMO 125 A



NACS



AC 22 kW
Type 2 socket
with shutters



	RAPID 60 One	RAPID 60 One+	RAPID 60 Duo	RAPID 60 Trio
AC INPUT				
	3 phases + N + PE			
Voltage	380/400 Vac ±15%			
Frequency	50/60 Hz ±5%			
Rated current	96 A	128 A (96 A + 32 A)	96 A	128 A (96 A + 32 A)
Rated power	60 kW	82 kW (60 kW + 22 kW)	60 kW	82 kW (60 kW + 22 kW)
DC OUTPUT				
Voltage range	150 - 1000 V			
Maximum current	150 A	150 A	200 A (100 A + 100 A)	
Maximum power	60 kW	60 kW	60 kW (30 kW + 30 kW)	
Charging connectors	CCS	CCS	CCS + CCS CCS + CHAdeMO	CCS + CCS CCS + CHAdeMO
AC OUTPUT (OPTIONAL)				
Voltage	-	230/400 Vac ±15%	-	230/400 Vac ±15%
Maximum current	-	32 A	-	32 A
Maximum power	-	22 kW	-	22 kW
Charging connectors	-	Type 2 socket with shutters	-	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: DIN70121, ISO15118			
Overcurrent	Curve C circuit breaker protections (20 kA)			
Indirect contacts ⁽¹⁾	30 mA differential protections ⁽²⁾			30 mA (DC) differential protections ⁽²⁾ 30 mA type B (AC) differential protection
Overtages	Type 2 protection against permanent and transient overvoltages, both on DC inputs and outputs			
FUNCTIONALITIES AND ACCESSORIES				
Communication interfaces	Ethernet (Switch mode), RS485, GPRS - 2G/3G/4G (optional), dual SIM (optional)			
Communication protocols	OCPP 1.6, 2.0.1, Modbus RTU, Modbus TCP, MQTT			
HMI	10.1" color touchscreen, multi-language RFID reader (Mifare Classic 1K&4K, Mifare DesFire EV1, NFC) 360° status RGB LEDs Contactless bank card reader (optional)			
Plug & Charge (ISO15118)	Yes			
GENERAL INFORMATION				
Stand-by consumption	< 70 W			
Efficiency and power factor	> 95% at rated power; > 0.98			
Energy measurement	DC meter			AC (MID) and DC meter ⁽³⁾
Hose length	5 m (4.4 m usable length) with cable management system (CMS) included			
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	140 kg	145 kg	160 kg	165 kg
Dimensions (h x w x d)	1950 x 760 x 335 mm			
Enclosure	Galvanized steel (stainless steel optional) RAL 9003			
Protection class	IP54 / IK10 / C5H			
Ventilation system	Side air ventilation			
Sound level	< 55 dB			
Markings	CE			
Directives	Low Voltage Directive: 2014/35/EU EMC Directive: 2014/30/EU RED Directive 2014/53/EU			

Notes

- ⁽¹⁾ Manual or resettable protection depending on the model.
⁽²⁾ Protection type A or type B depending on the model.
⁽³⁾ MID French market certification and Eichrecht certification in development.

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 FEATURES

Functions

- Highly resistant enclosure made of 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.

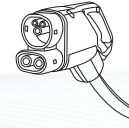
Options

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

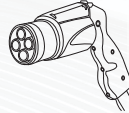
CONNECTORS



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



730 mm 774 mm

2,300 mm


RAPID 120
RAPID 180
AC INPUT

Voltage	3 phases + N + PE; 380/400 Vac \pm 15%	
Frequency	50/60 Hz \pm 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 \pm 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	Stainless steel and aluminum	
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).

RAPID ST



The ultra-fast charging station

Ultra-fast charging stations are a key element for electric mobility to take off fully.

Ingteam's solution for ultra-fast charging stations is based on a new DC distribution architecture, which allows maximum simplification of the installation and easy integration of storage and photovoltaic energy.

It brings together all the advantages of latest generation SiC electronics with a very compact size, as well as excellent efficiency and reliability.

RAPID ST200 and ST400 are the ideal ultra-fast charging points for service stations with a high turnover. Compatible with the CHAdeMO and CCS standards, they are the perfect solution for charging all types of electric vehicle.



	RAPID ST 200		RAPID ST 400	
	ONE	DUO	ONE	DUO
Connectors	1	2	1	2
Simultaneous charging		✓		✓
Connector type	CCS	CCS + CCS CCS + CHAdeMO	CCS	CCS + CCS CCS + CHAdeMO

RAPID ST FEATURES

Functions

- Ultra-fast charging in CCS, up to 400 kW.
- Ultra-fast charging in CHAdeMO up to 100 kW.
- Cable management system (CMS).
- Ambient light.
- Integrated DC wattmeter.
- Simplicity and efficiency in the integration of storage systems.

HMI

- 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.
- Emergency button.
- Security lock with key.
- Door-opening sensor.

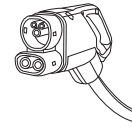
Maintenance

- Ventilation filter accessible from the outside without internal manipulation.
- IP2x accessible control area.

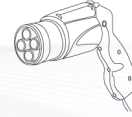
Options

- GPRS - 2G/3G/4G communication.
- Ethernet switch kit for 8 ports.
- Contactless bank card reader.
- 21" Full HD advertising screen.
- Complete supply of the transformation center.
- Smart DLM.
- Cloud Manager.
- Refrigerated cable.

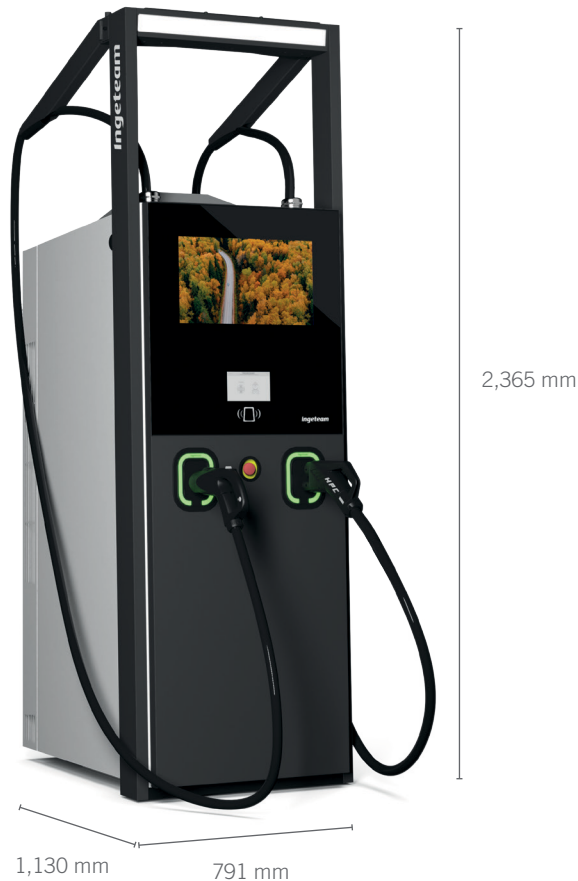
CONNECTORS



CCS2 300/500
CCS Type 2
300 or 500 A



CHA200
CHAdeMO 200 A




DC INPUT

Rated current	301 A	602 A
Rated voltage	700 V	700 V

DC OUTPUT

Voltage range	50 - 1,000 Vdc	
Maximum current	312 A to 500 Vdc 200 A to 1.000 Vdc	500 A to 500 Vdc, 400 A to 1,000 Vdc
Maximum power	200 kW	400 kW
Charging connectors	CCS I CCS + CCS I CCS + CHAdeMO	

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, DIN70121, ISO15118
Indirect contacts	DC: continuous insulation monitoring AC: differential protection
Overvoltages	Overvoltage category: III (according to IEC 60664-1)

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) Contactless bank card reader (optional)
Advertising screen	21" Full HD (optional)
Plug & Charge	Yes

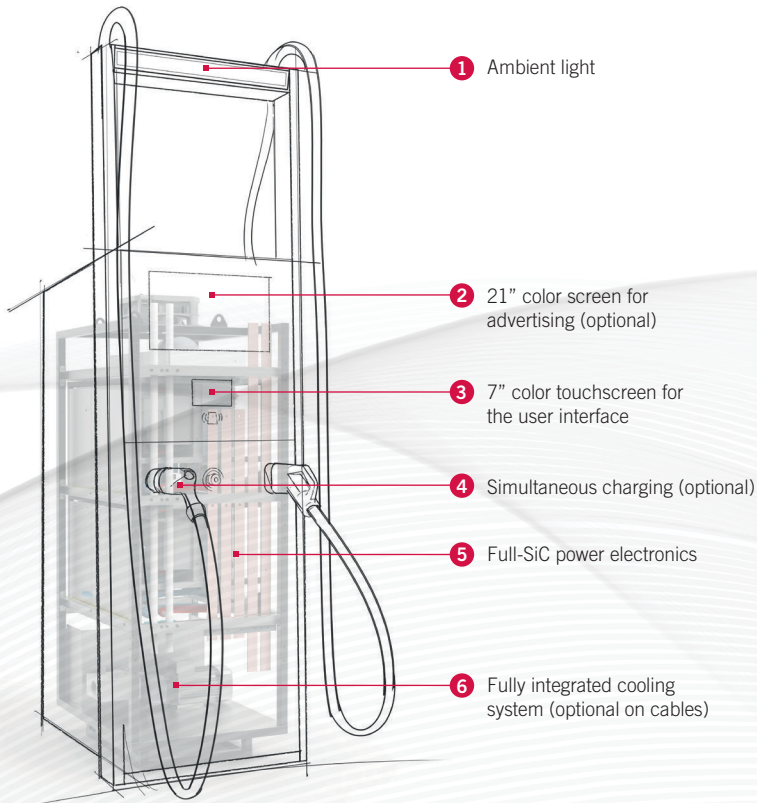
GENERAL INFORMATION

Auxiliary supply	3 phases + N; 400 Vac \pm 10%	
Stand-by consumption	300 W	
Efficiency and power factor	> 95% at rated power; > 0.98	
Energy measurement	DC meter	
Hose length	4.8 m with cable management system (CMS) included	
Operating temperature	-20 °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	530 kg	630 kg
Dimensions (h x w x d)	2365 x 791 x 1,130 mm	
Enclosure	Galvanized steel	
Protection class	IP55 / IK10 (IK08 display) / C5H	
Cooling system	Integrated liquid cooling (optional in cables)	
Markings	CE	

Directives

Low Voltage Directive: 2014/35/EU | EMC Directive: 2014/30/EU |
RED Directive 2014/53/EU

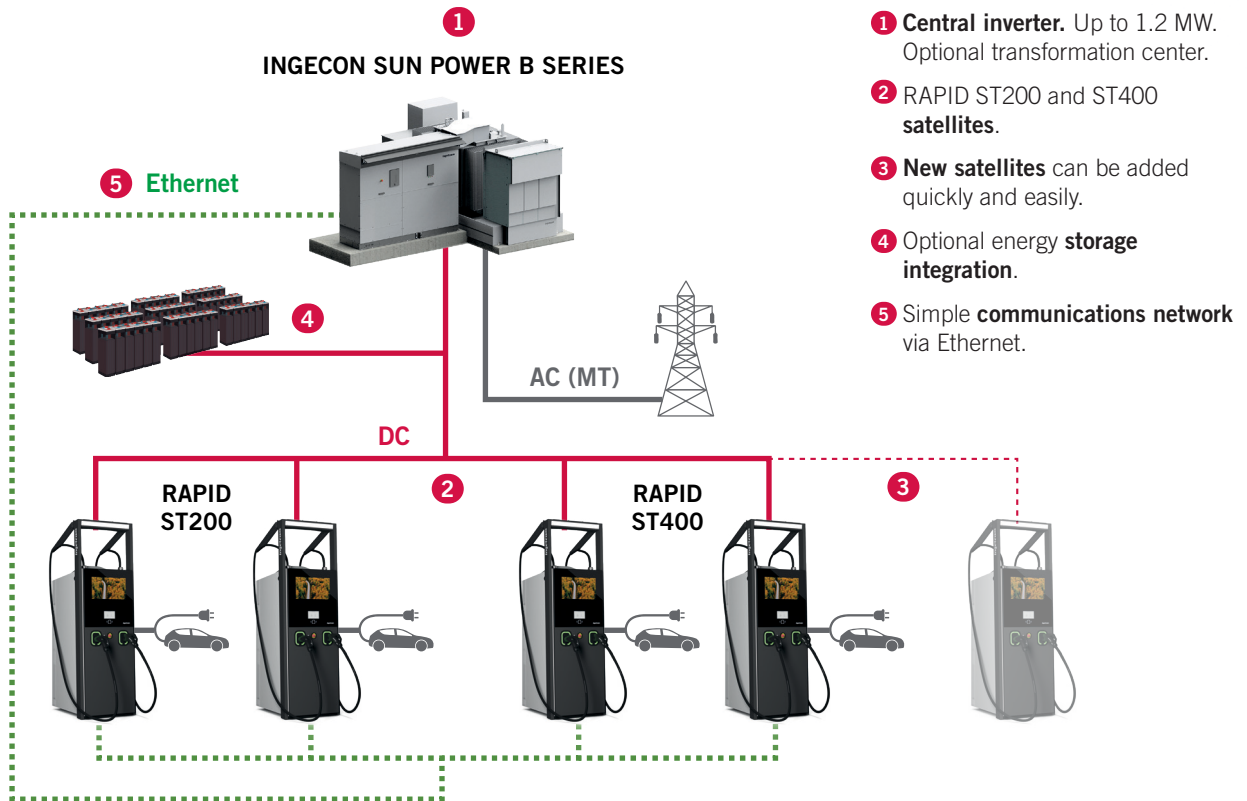




Advantages of the DC bus architecture

- Up to 120 meters of distance between the central inverter and the satellites, free and clear charging area.
- Half of the installation footprint of other architectures.
- Cooling integrated in all elements, allowing maximum simplification of the installation.
- Scalability, allowing easy implementation of expansions by connecting new satellites to the DC bus.
- Flexible power balancing (DLM) between all satellites.
- All satellites can always be charged simultaneously without having to sacrifice power modules in order to divert that energy to another satellite with greater demand.
- ST200 satellites can be updated to ST400 just by adding a new power module.

INSTALLATION DIAGRAM



- 1 **Central inverter.** Up to 1.2 MW. Optional transformation center.
- 2 **RAPID ST200 and ST400 satellites.**
- 3 **New satellites** can be added quickly and easily.
- 4 **Optional energy storage integration.**
- 5 **Simple communications network** via Ethernet.

CENTRAL INVERTER
AC INPUT
1110TL B400

Power @35 °C / @50 °C	1,020 kVA
Current @35 °C / @50 °C	1600 A / 1472 A
Rated voltage	3P 400 V IT System
Frequency	50 / 60 Hz
Adjustable power factor	Yes, 0-1 (leading /lagging)
THD (Total Harmonic Distortion)	< 3%
Overvoltage protection	Type II surge arresters
AC switch	AC thermomagnetic switch with door control, remote or motorized trip

STORAGE

Battery voltage range	580 V - 780 V
-----------------------	---------------

DIMENSIONS AND WEIGHT

Dimensions (W x D x H)	2820 x 825 x 2,270 mm
Weight	1560 kg

GENERAL DATA
INSTALLATION

Operating temperature	-20 °C to +60 °C
Relative humidity (without condensation)	0 - 100%
Protection class	IP54 / IK10 (IK08 display and ventilation grilles)
Protection against corrosion	C5H
Maximum altitude	4,500 m (for installations above 1,000 m, please contact the sales department)
Product marking	CE



DLM 2.0



Maximum use of the available power

Dynamic Load Management 2.0 (DLM 2.0) is the latest generation of the dynamic load management system incorporated as standard in all FUSION and RAPID models.

DLM 2.0 allows all sockets on each charging point to share the total power defined on the equipment in the most balanced and dynamic way possible, also allowing a set of units to be interconnected, defining a maximum power for them all so that they never exceed the assigned threshold, regardless of the number of vehicles charging simultaneously.

This means we can **optimize the use of the existing installation**, either due to contracted power or any other limitation of the installation.

GENERAL OPERATION

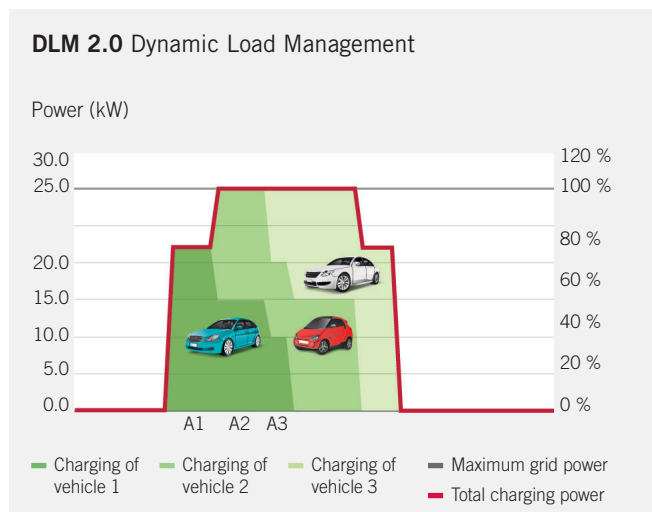
DLM 2.0 dynamically manages the load of each socket in the installation, depending on the number of vehicles that are charging, the types of socket or connector used and the actual current required by each vehicle, evaluating all of this in real time.

It is dynamic and versatile, as if one of the vehicles does not use all of the assigned current, that unconsumed current is redistributed to the other vehicles that are connected for better use of the available power.

It is possible to combine alternating and direct current points in the same group of charging points.

DLM 2.0 FEATURES

- Multiple units interconnected, in series or in a hub.
- Maximum power of the fixed charging installation.
- Instantaneous charging powers adjusted according to the number of vehicles charging and their consumption.



SMART DLM 2.0

Smart power

Smart DLM is the latest evolution of the DLM 2.0 system for smart and dynamic management of the power in an installation that, in addition to chargers, is made up of other loads, such as those of an office or industry.

It consists of a grid analyzer, installed at the point to be managed and connected to a unit. All FUSION and RAPID models are compatible with Smart DLM and they can even be combined.

Smart DLM **allows the overall power of the chargers to be modified in real time and dynamically**, which will regulate their power as a whole, adapting to the other consumers in the installation.

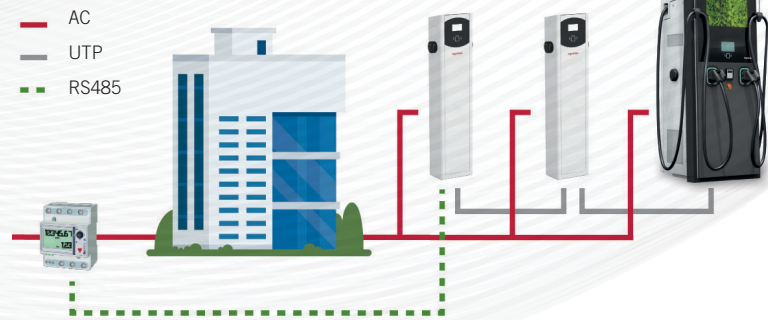
This means that we can manage the power demand and avoid or minimize the need to increase the contracted power.

The Smart DLM system analyzes the power consumed by the entire installation at all times, including charging points.

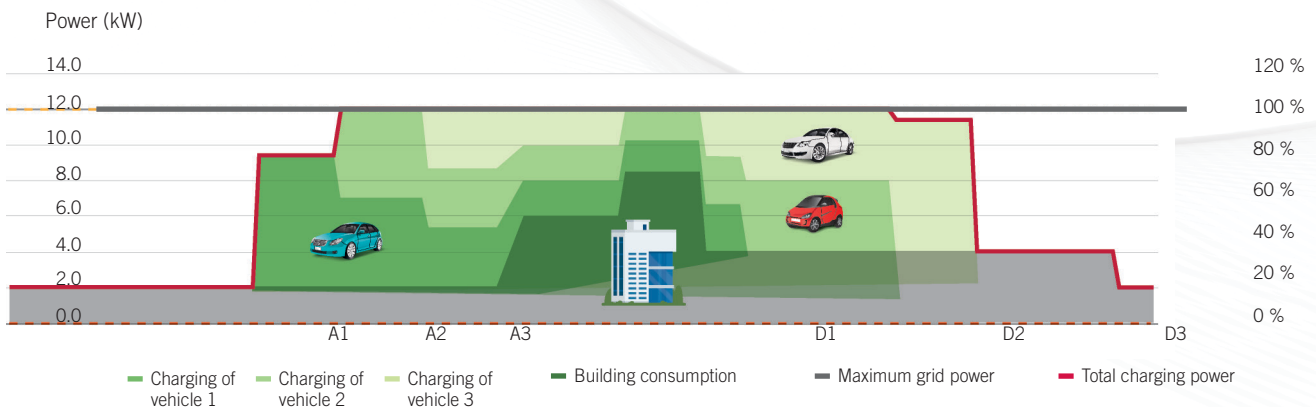
SMART DLM 2.0 FEATURES

- Multiple units interconnected, in series or in a hub.
- Maximum power to be absorbed by the fixed grid.
- Instantaneous powers adjusted according to the vehicles charging and the total consumption of the installation.

*There are two versions according to the maximum power, Smart DLM and Smart DLM Pro (>45 kW).



Smart Dynamic Load Management



EUROPE

Ingeteam Power Technology, S.A.
Avda. Ciudad de la Innovación, 13
31621 Sarriguren (Navarra) - Spain
Tel.: +34 948 288 000
Fax: +34 948 288 001
e-mail: evc.energy@ingeteam.com

Ingeteam S.r.l.
Via Emilia Ponente, 232
48014 Castel Bolognese (RA) - Italy
Tel.: +39 0546 651 490
Fax: +39 054 665 5391
e-mail: emobility.italia@ingeteam.com

Ingeteam SAS
140 Rue Carmin - Le Naurouze B
31670 Labège - France
Tel.: +33 (0)5 61 25 00 00
Fax: +33 (0)5 61 25 00 11
e-mail: france@ingeteam.com

Ingeteam, a.s.
Technologická 371/1
70800 Ostrava - Pustkovec
Czech Republic
Tel.: +420 59 747 6800
Fax: +420 59 732 6899
e-mail: czech@ingeteam.com

Ingeteam GmbH
Grand Bateau – Zollhof 6
D-40221 – Düsseldorf, Germany
Tel.: +49 (0) 211 78177950
e-mail: deutschland@ingeteam.com

Ingeteam Poland Spzoo
Ul. Koszykowa 60/62 m 39
00-673, Warsaw, Poland
Tel.: (+48) 22 821 99 30
e-mail: polska@ingeteam.com

Ingeteam LTD.
Unit 10 Gordano 19, Garanor Way, Portbury
Bristol, BS20 TXE - United Kingdom
Tel.: +44 (0) 331 630 0305

NORTH AMERICA

Ingeteam Inc.
3550 W. Canal St.
Milwaukee, WI 53208 - USA
Tel.: +1 (414) 934 4100 / +1 (855) 821 7190
Fax: +1 (414) 342 0736
e-mail: usa@ingeteam.com

Ingeteam Power Technology México S de RL de CV
Av. Ejército Nacional Mexicano 351,
Chapultepec Morales, Granada,
Miguel Hidalgo,
CP: 11520
Ciudad de México, CDMX
Tel.: (+52) 55 6586 9930
e-mail: proveedores.iptm@ingeteam.com

SOUTH AMERICA

Ingeteam Ltda.
Rua Estácio de Sá, 560
Santa Genebra
Campinas - SP
CEP: 13080-010; São Paulo - Brazil
Tel.: (+55) 19 30 37 37 73
e-mail: brazil@ingeteam.com

Ingeteam Chile SpA
Balmoral n.º 309, Piso 10º, Oficina 1008,
7561282 Las Condes
Santiago, Chile
Tel.: (+56) 229 253 825
e-mail: chile@ingeteam.com

ASIA

Ingeteam Power Technology Shanghai, Co. Ltd.
Room 2606-F, No.360 South Pudong Road
China (Shanghai) pilot free trade zone
C.P 200120
Tel.: +86 139 1622 4886
e-mail: liu.yimin@ingeteam.com

Ingeteam India Pvt. Ltd.
Survey No. 111/1-111/3 & 111/5-111/7,
Village No.155, Mambakkam Village,
Chennai - Bangalore Main Road,
Sriperumbudur Taluk,
Kancheepuram District - 602106,
Tamilnadu, India

Ingeteam Power Technology S.A. UAE Branch
Al Bateen tower c6 Bainunah 1st floor
Street 34
Abu Dhabi - UAE
Tel.: +971 2 207 6666

Ingeteam Power Technology S.A.
Thailand representative office
100/67 Vongvanij B Building, 22nd floor,
Rama IX Road., HuayKwang,
10320 Bangkok
Te.: +66 22461798
e-mail: Thailand.pga@ingeteam.com

AUSTRALIA

Ingeteam Australia Pty Ltd.
Iaccelerate Centre, Building 239
Innovation Campus, Squires Way
North Wollongong, NSW 2500 - Australia
Tel.: +61 429 111 190
e-mail: australia@ingeteam.com

Ingeteam

www.ingeteam.com