## RAPID ST

### The ULTRA-RAPID



**Ultra-rapid charging stations play a key role** in the complete expansion of e-mobility.

The Ingeteam ultra-rapid charging station solution is based on an innovative DC distribution architecture, for maximum simplicity of the installation as well as the easy integration of storage and PV energy.

It offers all the advantages of the latest generation SiC electronics, while combining an extremely compact size, high efficiency and reliability.

Ingeteam RAPID ST200 and ST400 are the ideal ultra-rapid 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 e-vehicles.

	ST200 ONE	ST400 ONE	ST200 DUO	ST400 DUO
Connectors	1	1	2	2
Simultaneous charging				✓

#### **FEATURES**

- Ultra-rapid charging in CCS up to 400 kW.
- Super-rapid charging in CHAdeMO up to 100 kW.
- RFID / NFC card authentication.
- 7" color touch screen.
- Ambient light.
- Simplicity and efficiency in the integration of storage systems.
- Built-in DC wattmeter.

#### **COMMUNICATIONS**

- Communication Modbus TCP.
- Compatibility with OCPP.

#### **SAFETY**

- Highly visible emergency button to guarantee safety of use.
- Automatic software updates (OCPP, ISO15118, etc.) for the entire product life.

#### **OPTIONS**

- 21" advertising screen.
- Contactless card payment solution (Ingenico).
- Complete supply of satellites, central inverter and sub-station.
- Remote communication via Ethernet and 3G/4G.

#### **CONNECTOR TYPES**



CCS1 300/500 CCS Type 1 300 or 500 A



CCS2 300/500 CCS Type 2 300 or 500 A



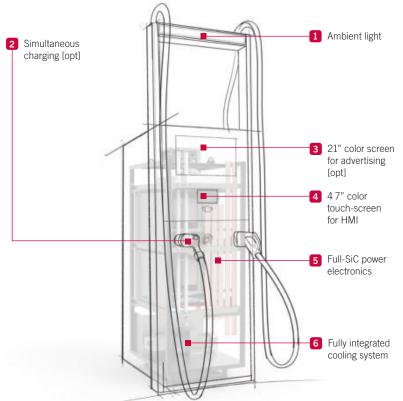
CHA125 CHAdeMO 125 A



CHA200 CHAdeMO 200 A

## **CHARGING** station





- Distance of up to 120 metres between the central inverter and the satellites, free and unobstructed charging area.
- Half the installation footprint of other architectures.
- Integrated cooling in all elements, for maximum installation simplicity.
- Scalability, the system can be easily extended by connecting new satellites to the DC bus.
- Flexible power balancing (DLM) between all the satellites.
- All the satellites can always charge simultaneously with no need to sacrifice power modules in order to divert the energy to another satellite with a higher demand.
- The ST200 satellites can be upgraded to ST400 by simply adding a new power module.



# Central inverter AND SATELLITES



# RAPID ST

	-	ZA I		
	Charging Satellites			
Input (DC)	RAPID ST200	RAPID ST400		
Rated input current	200 A	400 A		
DC output				
Voltage range	50 - 1000 Vdc			
Maximum current	250 A up to 500 Vdc, 200 A up to 1000 Vdc	500 A up to 500 Vdc, 400 A up to 1000		
Maximum power	200 kW	400 kW		
Connectors	CCS Type 2 / CHAdeMO			
General information				
Cooling system	Integrated liquid cooling			
Auxiliary power supply	3P+N 400V			
Length of cables	4.8 m			
Standards and Safety	(2/2)	Co Western		
General standards	IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISO 15118, IEC 61000			
Indirect contacts	Continuous monitoring of insulation			
Overvoltages	Type III sui	rge arresters		
Dimensions and weight	19,000	Traile.		
Dimensions	775 x 935 x 2,620 mm (W x D x H)			
Weight	430 kg	530 kg		
	Central	inverter		
Input (AC)	1110TL B400			
Power at @35 °C / @50 °C	1,020 kVA			
Current at @35 °C / @50 °C	1,600 A / 1,472 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 protections  AC breaker	Type II surge arresters  AC MT breaker, door operated, remote tripping or motor driven			
Storage	AC IVIT breaker, door operated,	remote tripping of motor unvert		
Battery voltage range	580 -	820 V		
Dimensions and weight				
Dimensions (Width x Depth x Height)	2,820 x 825 x 2,270 mm			
Weight	2,020 x 025 x 2,270 mm 1,560 kg			
General data	Installation			
Operating temperature	-20 °C to +60 °C			
Relative humidity (non-condensing)	0 - 100%			
Protection rating	IP54 / IK10 (display and ventilation grid IK08)			
Corrosion protection	C5H			
Maximum altitude	4,500 m (for installations above 1,000 m contact the sales department)			
Product marking		CE		