



### The ULTRA-RAPID

### **CHARGING** station



**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.

INGEREV® 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



CCS 300/500 CCS Type 2 300 or 500 A



CHA125 CHAdeMO 125 A



CHA200 CHAdeMO 200 A



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# Central inverter AND SATELLITES RAPID ST







# Central inverter AND SATELLITES RAPID ST

Rated input current		A			
Rated input current  DC output  Voltage range  50 - 1000 Vdc  Maximum power  250 A up to 500 Vdc, 200 A up to 1000 Vdc  Connectors  CCS Type 2 / CHAdeMO  General information  Cooling system  Integrated liquid cooling Auxiliary power supply  Length of cables  Standards and Safety  General standards  IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC  Indirect contacts  Continuous monitoring of insulation  Overvoltages  Dimensions and weight  Dimensions  Central inverter  Input (AC)  Power at @35 °C / @50 °C  Rated voltage  Type III surge arresters  Type III surge arresters  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  1,000 A / 1,472 A  Rated voltage  3P 400 V IT System  Frequency  50 / 60 Hz  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  IP54 / IKIO (display and ventilation grid IKO8)					
DC output         SO - 1000 Vdc         50 - 1000 Vdc         500 A up to 500 Vdc, 4W         400 k         400 k<	put (DC)	INGEREV® RAPID ST200 INGEREV® RAPID ST400			
Maximum current         250 A up to 500 Vdc, 200 A up to 1000 Vdc         500 A up to 500 Vdc, 40           Maximum power         200 kW         400 k           Connectors         CCS Type 2 / CHAdeMO           General information         CCS Type 2 / CHAdeMO           Cooling system         Integrated liquid cooling           Auxiliary power supply         3P+N 400V           Length of cables         4,8 m           Standards and Safety         IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts           Covervoltages         Type III surge arresters           Dimensions and weight         Type III surge arresters           Dimensions         775 x 935 x 2,620 mm (W x D x H)           Weight         430 kg         530 k           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           Adjustable Power Factor         Yes, 0-1 (leading /lagging)           THD (Total Harmonic Distortion)         3%           Overvoltage protections         Type II surge arresters           AC MT breaker, door operated, remote tripping or motor driv           Storage         AC MT breaker, door operated, remote tripping or motor driv		200 A 400 A			
Maximum power  Connectors  General information  Cooling system  Integrated liquid cooling Auxiliary power supply  Length of cables  Standards and Safety  General standards IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts Continuous monitoring of insulation  Overvoltages  Dimensions and weight  Dimensions  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  1,020 kVA  Current at @35 °C / @50 °C  1,000 A / 1,472 A  Rated voltage  Frequency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions  Qeneral data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)	ltage range	50 - 1000 Vdc			
Connectors  General information  Cooling system Auxiliary power supply Length of cables Standards and Safety General standards Integrated liquid cooling Auxiliary power supply Standards and Safety General standards IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts Continuous monitoring of insulation Overvoltages Type III surge arresters  Dimensions and weight Dimensions  775 x 935 x 2,620 mm (W x D x H) Weight 430 kg Central inverter Input (AC) 1110TL B400 Power at @35 °C / @50 °C 1,020 kVA Current at @35 °C / @50 °C 1,020 kVA Current at @35 °C / @50 °C 1,040 kVA Adjustable Power Factor Frequency 50 / 60 Hz Adjustable Power Factor Frequency Type III surge arresters AC MT breaker, door operated, remote tripping or motor driv Storage Battery woltage range Dimensions AC breaker AC MT breaker, door operated, remote tripping or motor driv Storage Battery woltage range Dimensions and weight Dimensions  2,820 x 825 x 2,270 mm (W x D x H) Weight 1560 kg  General data Operating temperature -20 °C to +60 °C Relative humidity (non-condensing) Protection rating IP54 / IK10 (display and ventilation grid IK08)	aximum current	250 A up to 500 Vdc, 200 A up to 1000 Vdc 500 A up to 500 Vdc, 400 A up to 1	۱ 000.		
General information  Cooling system Auxiliary power supply Auxiliary power supply Alegath of cables Standards and Safety  General standards General standards General standards Firequency Adjustable Power Factor The (Total Harmonic Distortion) Covervoltage protections AC MT breaker, door operated, remote tripping or motor driv Storage Battery voltage range Battery voltage range Battery voltage range Battery voltage range General data Operating temperature Relative humidity (non-condensing) Protection rating Integrated liquid cooling AP +N 400V AB	aximum power	200 kW 400 kW			
Cooling system Auxiliary power supply Auxilia	onnectors	CCS Type 2 / CHAdeMO			
Auxiliary power supply Length of cables Standards and Safety General standards IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.00, DIN 70121, ISC Indirect contacts Continuous monitoring of insulation Overvoltages Dimensions and weight Dimensions Weight 430 kg Type III surge arresters  Central inverter Input (AC) I110TL B400 Power at @35 °C / @50 °C I,020 kVA Current at @35 °C / @50 °C I,020 kVA Current at @35 °C / @50 °C Alated voltage Frequency Frequency Frequency Frequency Frequency Frequency Adjustable Power Factor Frequency	eneral information				
Length of cables  Standards and Safety  General standards IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts Overvoltages Type III surge arresters  Dimensions T75 x 935 x 2,620 mm (W x D x H)  Weight 430 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 Frequency 50 / 60 Hz  Adjustable Power Factor THD (Total Harmonic Distortion) Vervoltage protections AC breaker AC breaker AC breaker AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range Dimensions Query lage range Query lage range Dimensions Query lage range Dimensions Query lage range Dimensions Query lage range Dimensions Query lage range Query lage range Dimensions Query lage range Dimensions Query lage range Dimensions Query lage range Query lage range Query lage range Dimensions Query lage range Q	poling system	Integrated liquid cooling			
Standards and Safety  General standards  General standards  IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts  Overvoltages  Type III surge arresters  Dimensions and weight  Dimensions  775 x 935 x 2,620 mm (W x D x H)  Weight  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  Current at @35 °C / @50 °C  Rated voltage  Trequency  50 / 60 Hz  Adjustable Power Factor  Tyes, 0-1 (leading /lagging)  Type III surge arresters  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  Dimensions  Central inverter  III Surge arresters  AC MT breaker, door operated, remote tripping or motor driv  Storage  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  IP54 / IKI0 (display and ventilation grid IK08)	uxiliary power supply	3P+N 400V			
General standards IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISC Indirect contacts  Continuous monitoring of insulation  Overvoltages  Type III surge arresters  Dimensions and weight  Dimensions  775 x 935 x 2,620 mm (W x D x H)  Weight  430 kg  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  1,020 kVA  Current at @35 °C / @50 °C  Rated voltage  3P 400 V IT System  Frequency  430 kg  750 / 60 Hz  Adjustable Power Factor  ThD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions and weight  Dimensions  Qeneral data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)	ngth of cables	4.8 m			
Indirect contacts Overvoltages Type III surge arresters  Dimensions and weight Dimensions T75 x 935 x 2,620 mm (W x D x H) Weight  Central inverter Input (AC) I110TL B400 Power at @35 °C / @50 °C I,600 A / 1,472 A Rated voltage Frequency Adjustable Power Factor THO (Total Harmonic Distortion) Overvoltage protections AC MT breaker, door operated, remote tripping or motor driv Storage Battery voltage range Dimensions Weight  Central inverter  Input (AC) I110TL B400 Power at @35 °C / @50 °C I,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 MT breaker, door operated, remote tripping or motor driv Storage Battery voltage range Dimensions and weight Dimensions  2,820 x 825 x 2,270 mm (W x D x H) Weight I560 kg  General data Installation Operating temperature -20 °C to +60 °C Relative humidity (non-condensing) Protection rating IP54 / IK10 (display and ventilation grid IK08)	andards and Safety				
Dimensions and weight  Dimensions  Type III surge arresters  Dimensions  Type III surge arresters  Type III surge arresters  Type III surge arresters  Type III surge arresters  Central inverter  Input (AC)  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  Type III surge arresters  AC NT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Dimensions  AC MT breaker, door operated, remote tripping or motor drives  Storage  Battery voltage range  Dimensions and weight  Di	eneral standards	IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISO 15118, IEC	6100		
Dimensions and weight  Dimensions  775 x 935 x 2,620 mm (W x D x H)  Weight  430 kg  530 k  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  Tyes, 0-1 (leading /lagging)  THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)	direct contacts	Continuous monitoring of insulation			
Dimensions  775 x 935 x 2,620 mm (W x D x H)  Weight  430 kg  530 k  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  1,600 A / 1,472 A  Rated voltage  Rated voltage  Frequency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Vervoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv.  Storage  Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)	vervoltages	Type III surge arresters			
Dimensions  775 x 935 x 2,620 mm (W x D x H)  Weight  430 kg  530 k  Central inverter  Input (AC)  1110TL B400  Power at @35 °C / @50 °C  1,020 kVA  Current at @35 °C / @50 °C  Rated voltage  Rated voltage  78 yes, 0-1 (leading /lagging)  THD (Total Harmonic Distortion)  79 ves, 0-1 (leading /lagging)  Type II surge arresters  AC breaker  AC MT breaker, door operated, remote tripping or motor drives to the surge arresters  AC MT breaker, door operated, remote tripping or motor drives to the surge arresters  Restery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  Restard	mensions and weight				
Central inverter		775 x 935 x 2.620 mm (W x D x H)			
Input (AC)  Power at @35 °C / @50 °C  Current at @35 °C / @50 °C  Rated voltage  Requency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  Battery voltage range  Battery voltage range  Battery voltage range  Battery voltage range  Dimensions and weight  Dimensions  General data  Operating temperature  Relative humidity (non-condensing)  Protection rating  Installation  1,020 kVA  1,600 A / 1,472 A  2,820 k 8,00 A  2,820 k 8,	eight				
Input (AC)  Power at @35 °C / @50 °C  Current at @35 °C / @50 °C  Rated voltage  Requency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  Battery voltage range  Battery voltage range  Battery voltage range  Battery voltage range  Dimensions and weight  Dimensions  General data  Operating temperature  Relative humidity (non-condensing)  Protection rating  Installation  1,020 kVA  1,600 A / 1,472 A  2,820 k 8,00 A  2,820 k 8,		Central inverter			
Power at @35 °C / @50 °C  Current at @35 °C / @50 °C  Rated voltage  Rated voltage  Frequency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC MT breaker, door operated, remote tripping or motor driver storage  Battery voltage range  Battery voltage range  Dimensions  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  General data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  Installation grid IKO8)	nut (AC)				
Current at @35 °C / @50 °C  Rated voltage  Frequency  Adjustable Power Factor  THD (Total Harmonic Distortion)  Overvoltage protections  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Battery voltage range  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  General data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)					
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 AC MT breaker, door operated, remote tripping or motor driv Storage Battery voltage range Battery voltage range Dimensions and weight Dimensions 2,820 x 825 x 2,270 mm (W x D x H) Weight 1560 kg  General data Installation Operating temperature Relative humidity (non-condensing) Protection rating IP54 / IK10 (display and ventilation grid IK08)		,			
Frequency Adjustable Power Factor Yes, 0-1 (leading /lagging) THD (Total Harmonic Distortion) Overvoltage protections AC breaker AC MT breaker, door operated, remote tripping or motor driv Storage  Battery voltage range Battery voltage range Dimensions and weight  Dimensions 2,820 x 825 x 2,270 mm (W x D x H) Weight  Storage  General data Installation  Operating temperature Relative humidity (non-condensing) Protection rating  I p54 / IK10 (display and ventilation grid IK08)					
Adjustable Power Factor THD (Total Harmonic Distortion)  Overvoltage protections AC breaker AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  Storage  General data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  Protection rating  Protection rating  Protection rating  Protection rating	-	· · · · · · · · · · · · · · · · · · ·			
THD (Total Harmonic Distortion)  Overvoltage protections  AC breaker  AC MT breaker, door operated, remote tripping or motor driv  Storage  Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  Relative humidity (non-condensing)  Protection rating  I p54 / IK10 (display and ventilation grid IK08)					
AC MT breaker, door operated, remote tripping or motor driven Storage  Battery voltage range 580 - 820 V  Dimensions and weight  Dimensions 2,820 x 825 x 2,270 mm (W x D x H)  Weight 1560 kg  General data Installation  Operating temperature -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating IP54 / IK10 (display and ventilation grid IK08)	•				
Storage  Battery voltage range 580 - 820 V  Dimensions and weight  Dimensions 2,820 x 825 x 2,270 mm (W x D x H)  Weight 1560 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)	vervoltage protections				
Battery voltage range  Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  1580 - 820 V  Installation  0 - 100 %  IP54 / IK10 (display and ventilation grid IK08)	Cbreaker	AC MT breaker, door operated, remote tripping or motor driven			
Dimensions and weight  Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  Protection rating  1,820 x 825 x 2,270 mm (W x D x H)  Installation  0 - 100 °C  1,954 / IK10 (display and ventilation grid IK08)	orage				
Dimensions  2,820 x 825 x 2,270 mm (W x D x H)  Weight  1560 kg  General data  Installation  Operating temperature  -20 °C to +60 °C  Relative humidity (non-condensing)  Protection rating  IP54 / IK10 (display and ventilation grid IK08)	attery voltage range	580 - 820 V			
Weight 1560 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)	mensions and weight				
General dataInstallationOperating temperature-20 °C to +60 °CRelative humidity (non-condensing)0 - 100%Protection ratingIP54 / IK10 (display and ventilation grid IK08)	mensions	2,820 x 825 x 2,270 mm (W x D x H)			
Operating temperature -20 °C to +60 °C Relative humidity (non-condensing) 0 - 100% Protection rating IP54 / IK10 (display and ventilation grid IK08)	eight	1560 kg			
Relative humidity (non-condensing) 0 - 100%  Protection rating IP54 / IK10 (display and ventilation grid IK08)	eneral data				
Protection rating IP54 / IK10 (display and ventilation grid IK08)		27 7 10 7 27 2			
Comparing analystics					
	prrosion protection	C5H			
		4,500 m (for installations above 1,000 m contact the sales department)  CE			