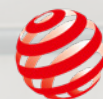


RAPID 60





reddot winner 2024
urban design



GERMAN
DESIGN
AWARD
WINNER
2024



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. The **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
Number of connectors	1	2	2	3
Simultaneous charging		✓	✓	✓
Charging connectors	CCS ⁽¹⁾	CCS + AC T2S	CCS + CCS CHAdeMO + CCS ⁽²⁾	CCS + CCS + AC T2S CHAdeMO + CCS + AC T2S ⁽²⁾

Notes

⁽¹⁾ In the RAPID 60 One, the cable can only be connected to the DC connector on the right side.

⁽²⁾ The CHAdeMO connector can only be used on the DC connector on the left side.

RAPID 60 FEATURES

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.
- Simultaneous AC and DC charging:
 - DC: DC charging at 60 kW. Dual charging at 30 kW.
 - AC: 22 kW.
- DC wattmeters.
- AC MID wattmeter or Eichrecht.
- ISO 15118-1,2,3,4,5 (Afirm compliant)⁽²⁾

HMI

- RGB status LEDs on supports and 360° ring.
- RFID reader.

Communications and software

- Dual Ethernet port with Switch mode.
- RS485.
- OCPP, Autocharge, Plug & Charge.
- DLM, static and dynamic power

Notes

⁽¹⁾ MID certification, Eichrecht compliance, and compatibility with the French market available.

⁽²⁾ ISO 15118-20 Ready.

management with other Ingeteam DC and AC units.

- Web Manager.
- Modbus TCP, MQTT.
- Automatic software updates.
- Update via USB.

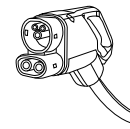
Safety

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

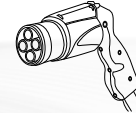
Options

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

CONNECTORS



CCS2
150 A



CHAdeMO
125 A⁽¹⁾



AC 22 kW
Type 2 socket with shutters 22 kW

Notes

⁽¹⁾ CHAdeMO can only be connected to the DC connector on the left side.



2,170 mm



1,950 mm

340 mm

760 mm

	RAPID 60 One	RAPID 60 One+	RAPID 60 Duo	RAPID 60 Trio
AC INPUT				
3 fases + N + PE; 380/400 Vac ± 15%				
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		200 A (100 A + 100 A)	
Maximum power	60 kW		60 kW (30 kW + 30 kW)	
Charging connectors	CCS		CCS + CCS CCS + CHAdeMO ⁽¹⁾	
OUTPUTS				
Maximum number of connectors	1	2	2	3
Maximum number of simultaneous charging	1	2	2	3
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, DIN 70121, ISO15118-1,2,3,4,5, Eichrecht			
Overcurrent	Curve C circuit breaker protections (20 kA)			
Indirect contacts ⁽²⁾	30 mA differential protections ⁽³⁾	30 mA (DC) differential protection ⁽³⁾ 30 mA Type B (AC) differential protection	30 mA differential protections ⁽³⁾	30 mA (DC) differential protections ⁽³⁾ 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, OCPP 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) ⁽⁴⁾			
Plug & Charge (ISO 15118)	Yes			
GENERAL INFORMATION				
Stand-by consumption	< 70 W			
Efficiency and power factor	> 95% at rated power; > 0.98			
Energy measurement	DC meter ⁽⁵⁾	AC Meter (MID) and DC ⁽⁵⁾	DC meter ⁽⁵⁾	AC (MID) and DC meter ⁽⁵⁾
Hose length	5 m (4.4 m usable length) and 7m (6.4 m usable) with cable management system (CMS) included			
Operating temperature	-25 °C to 55 °C ⁽⁴⁾ Low temperature kit at -35 °C (optional)			
Humidity	< 95%			
Maximum altitude	2,000 m (for higher altitudes, consult Ingeteam)			
Weight	243 kg	248 kg	273 kg	278 kg
Dimensions (h x w x d)	1950 x 760 x 340 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⁾ CHAdeMO can only be used on the DC connector on the left side.

⁽²⁾ Manual or auto-reset protection, depending on the model.

⁽³⁾ Protection Type A or Type B depending on the model.

⁽⁴⁾ To be confirmed with Ingeteam.

⁽⁵⁾ MID certification, Eichrecht compliance, and compatibility with the French market available.

⁽⁶⁾ For simultaneous charging CHAdeMO and AC derating in AC from 35°C onwards.