

CHARGING STATION the rapid multi-standard



Thanks to the increasingly greater operating ranges, e-vehicles have a growing presence on the roads, for journeys that are getting longer and longer. For this reason, **it is essential to have charging networks based on rapid charger.**

These charging networks require rapid charging equipment that meets the requirements of all the necessary standards, while it must also offer advanced power management capabilities, latest generation communications and high reliability levels.

E-fuel RAPID 50 is the ideal multi-standard rapid charging point for service stations and fleets with a high turnover. It is compatible with all current fast charging standards, CHAdeMO, CCS and Type 2 Mode 3 43 kW, making it the ideal solution for charging all types of electric vehicles.

E-fuel RAPID 50 Trio offers the possibility of simultaneous AC and DC charging, with dynamic power management between both sockets and even between various RAPID units in the same installation.

	Trio	Duo	One
CSS	✓	✓	✓
CHAdeMO	✓	✓	
AC 43 kW	✓		

FUNCTIONALITIES

Rapid charging in CCS Type 2 up to 50 kW.

- Rapid charging in CHAdeMO up to 50 kW.

- Rapid charging in AC Type 2 up to 43.5 kW.

- RFID/NFC card authentication.

- 7" color touch screen.

- Sturdy steel housing for exceptional resistance in even the most adverse ambient conditions.

- Possibility of simultaneous AC and DC charging.

COMMUNICATIONS

- Local communication with other E-fuel charging points.

- Remote communication via Ethernet and 3G.

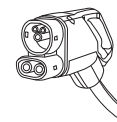
- Compatibility with OCPP.

SECURITY

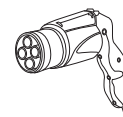
- RCD and MCB protections against indirect contacts, short-circuits and overloads.

- Highly visible emergency button to guarantee safety of use.

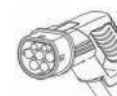
CONNECTORS TYPE



CCS
COMBO Tipo 2



CHAdeMO
1EVS 6105



AC 43 kW
Tipo 2

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E-fuel RAPID 50 Trio / Duo / One	
AC input (DC output)	
Voltage	3 phase + N + PE; 400 Vac \pm 15%
Frequency	50 Hz
Rated current	77 A
Rated power	53 kVA
Efficiency	>94%
Power factor	>0,98
AC input (AC output)	
Voltage	3 phase + N + PE; 400 Vac \pm 15%
Frequency	50 Hz
Rated current	63 A
Rated power	43,5 kVA
Output connectors	Mode 3 AC Tipo 2
Output values (DC)	
Voltage range	50 - 500 V
Maximum current	125 A
Maximum power	50 kW
Connectors	CCS Type 2 / CHAdeMO ⁽¹⁾
Standards and Safety	
General standards	IEC 61851-1, IEC 61851-23, IEC 61851-24, CHAdeMO 1.0.0, DIN 70121, ISO 15118, IEC 61000
Over-current	Short-circuits at the two AC inputs
Indirect contacts	Residual current device (RCD) AC input (DC output) 300 mA type A AC input (AC output) 30 mA type A (type B optional) ⁽²⁾
Over-voltages	Type 3 surge arresters
Functions / Accessories	
Communication	Ethernet, GPRS-3G ⁽³⁾ , Wi-Fi ⁽³⁾
Communication protocol	Ocpp
HMI	Touch screen TFT da 7", RFID (MIFARE Classic 1K e 4K, MIFARE DESFire EV1, NFC) ⁽³⁾
General information	
Cooling system	Forced ventilation
Consumption in stand-by mode	<100 W
Cable length	3,2 m ⁽⁴⁾
Operating temperature	da -25 °C a + 60 °C
Humidity	0 - 95% - without condensation
Weight	620 kg
Dimensions	785 x 700 x 1.900 mm
Structure and housing	Galvanized steel sheet. RAL 9003
Environmental protection rating	IP55 / IK10 (display and ventilation grid IK08)
CE Marking	CE
Maximum operating height	Up to 2.000 m

Note: ⁽¹⁾ Only for TRIO and DUO models⁽²⁾ Only for TRIO model⁽³⁾ Optional⁽⁴⁾ 4.8 m optional.