



FIMER ELECTRA

DC Station

The FIMER ELECTRA DC station is a charging device for electric vehicles providing both fast DC and AC charging; the best solution when fast charging is required.

60-90-120-150 kW

The FIMER ELECTRA DC station is a new generation device for charging electric vehicles, in both alternating current (AC) and direct current (DC) mode, allowing you to charge up to three vehicles simultaneously and dynamically distribute the total power to the outputs, depending on your needs and the availability of the electricity grid. This flexibility always ensures charging at all available outputs.

Depending on the number of vehicles connected to the DC outputs, the station distributes its maximum power dynamically. For example, assuming that a total of 60 kW are available at the station, two vehicles will be charged with 30 kW each; if one of the two disconnects, the total power of 60 kW is supplied dynamically to the only remaining output.

The same management method is followed for higher power values.

The FIMER ELECTRA is specially designed with a modular architecture, to ensure maximum flexibility and allow updating, even after installation, simply by adding 30 kW power modules in its side housing. Therefore, a wide range of charging powers, from 60 to 150 kW, and configurations is available (2 CCS outputs+1 AC output type 2 or 2 CHAdeMO outputs+1 AC output type 2 or 1 CHAdeMO output, 1 CCS output for the DC side + 1 AC output type 2).

The maximum total power deliverable by the station is 150 kW for the DC side (maximum 75 kW for each DC output) and 43 kW for the AC side.

The FIMER ELECTRA is customizable; customers can request an illuminable LED featuring their brand at the bottom of the station.

Technical specifications:

- 3 simultaneous charging sessions (2 DC + 1 AC)
- 2 simultaneous DC charging sessions at 30 kW, i.e. a total power of 60 kW (or higher, depending on the version)
- Modular architecture, from 60 kW – 90 kW – 120 kW – 150 kW
- Dynamic distribution of outgoing DC current load (internal management via data matrix contactor)
- IP54, IK10
- MID Meter Certificate
- 96% energy efficiency

Signals and control

- 7-inch graphical user interface for charging states
- RFID reader, ISO 15118 as user identification
- OCPP 1.6 Json protocol
- Network interface: Ethernet, GSM/3G/4G, WLAN, bluetooth

Connector types

- CCS + CHAdeMO + AC connector type 2
- Multiple configuration (CCS2, CHAdeMO and Type2)



CCS



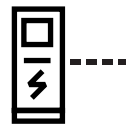
CHAdeMO



Type 2



7-inch display



OCPP protocol



App



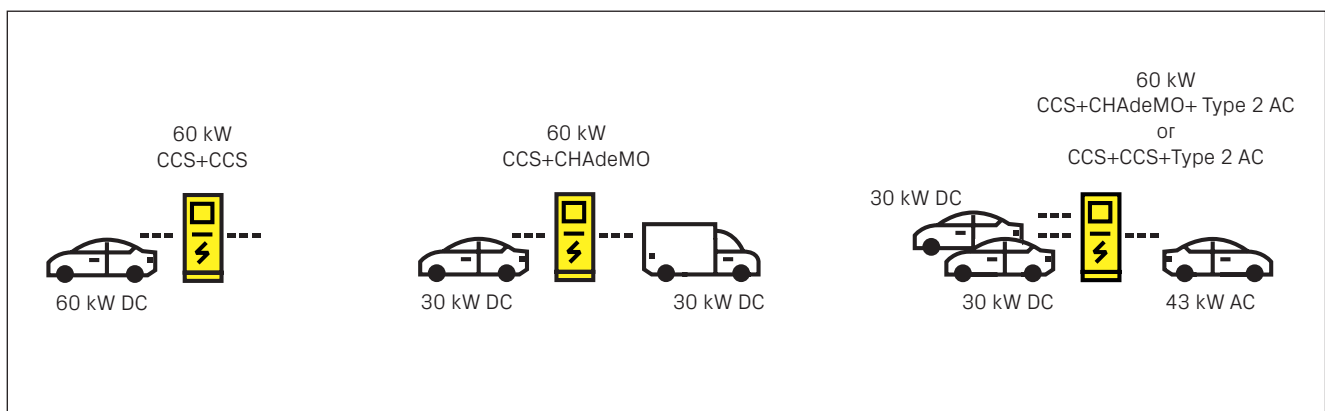
RFID



Customizations



Power backup



The example refers to a charging station with a maximum power of 60 kW. When the power modules increase, the total power of the station (up to 150 kW) and its outputs (up to 2x75 kW) also increase.

Technical data

Model	FIMER ELECTRA DC Station			
Maximum AC output power	43KW	43KW	43KW	43KW
Maximum DC output power	60KW	90KW	120KW	150KW
Standard	IEC61851-1, IEC61851-23, IEC61851-24			
Charging method	Mode 3, Mode 4			
Available outlets	CHAdeMO, CCS2, Type2			
Power system	3P + N + PE			
Rated input voltage	400V AC \pm 10%			
Frequency	50-60Hz			
Rated AC output voltage	400 VAC			
Rated DC output voltage	150 – 1000 VDC			
Rated AC output current	63A			
Rated DC output current	150A	225A	300A	375A
Power factor	0.99			
THD	<5%			
Efficiency factor	>0.96%			
Degree of pollution	2			
EMC classification	Class B emissions			
Protective measures against electric shock	Class I			
Connection to the mains	Permanently connected to the mains			
Grounding system type	TT or TN (both with PE)			
Indoor/outdoor installation	External			
Fixed or removable installation	Fixed			
Overvoltage category	III			
IP protection rating	IP55			
IK protection rating	IK10			
Case material	Stainless steel			
OCPP protocol	1.6 Json			
Supported languages	Italian, English, Spanish, others on request			
Dimensions	2030mm x 694mm x 644mm			
Weight	230kg	250kg	270kg	290kg
Operating temperature	-25...+50°C			
Storage temperature	-25...+70°C			
Humidity	0...95% (non-condensing)			
Altitude	Up to 4000m			
Product intended for use by	Unskilled persons			
Positioning in area with	Unlimited access			
Electrical protection	Included (overcurrent, overvoltage, short-circuit, overtemperature, isolation controller)			
Energy meter	MID certified			
RFID	•	•	•	•
3G/4G connection	•	•	•	•
Ethernet connection	•	•	•	•
LCD display	7"	7"	7"	7"
Status LED	Green, red, blue	Green, red, blue	Green, red, blue	Green, red, blue
Remote SW updates	•	•	•	•
Simultaneous charging	•	•	•	•
Emergency button	•	•	•	•
Door opening signal	•	•	•	•
Certification	CE, AUX, UL			

Available codes

Code	EAN	Description	Pmax - DC	Pmax - AC	Rated voltage	Socket 1	Socket 2	Socket 3	User interface
ELS00602CCM700	8033049748727	FIMER Electra DC Station 60kW CHAx2+T2 MIDx2; ELS00602CCM700	60kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CHAdEMO	T2 cord	LCD 7"
ELS00602SSM700	8033049748734	FIMER Electra DC Station 60kW CCSx2+T2 MIDx2; ELS00602SSM700	60kW	43kW	3P+N+PE 230/400 V AC	CCS2	CCS2	T2 cord	LCD 7"
ELS00602SCM700	8033049748741	FIMER Electra DC Station 60kW CHA+CCS+T2 MIDx2; ELS00602SCM700	60kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CCS2	T2 cord	LCD 7"
ELS00902CCM700	8033049748758	FIMER Electra DC Station 90kW CHAx2+T2 MIDx2; ELS00902CCM700	90kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CHAdEMO	T2 cord	LCD 7"
ELS00902SSM700	8033049748765	FIMER Electra DC Station 90kW CCSx2+T2 MIDx2; ELS00902SSM700	90kW	43kW	3P+N+PE 230/400 V AC	CCS2	CCS2	T2 cord	LCD 7"
ELS00902SCM700	8033049748772	FIMER Electra DC Station 90kW CHA+CCS+T2 MIDx2; ELS00902SCM700	90kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CCS2	T2 cord	LCD 7"
ELS00122CCM700	8033049748789	FIMER Electra DC Station 120kW CHAx2+T2 MIDx2; ELS00122CCM700	120kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CHAdEMO	T2 cord	LCD 7"
ELS00122SSM700	8033049748796	FIMER Electra DC Station 120kW CCSx2+T2 MIDx2; ELS00122SSM700	120kW	43kW	3P+N+PE 230/400 V AC	CCS2	CCS2	T2 cord	LCD 7"
ELS00122SCM700	8033049748802	FIMER Electra DC Station 120kW CHA+CCS+T2 MIDx2; ELS00122SCM700	120kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CCS2	T2 cord	LCD 7"
ELS00152CCM700	8033049748819	FIMER Electra DC Station 150kW CHAx2+T2 MIDx2; ELS00152CCM700	150kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CHAdEMO	T2 cord	LCD 7"
ELS00152SSM700	8033049748826	FIMER Electra DC Station 150kW CCSx2+T2 MIDx2; ELS00152SSM700	150kW	43kW	3P+N+PE 230/400 V AC	CCS2	CCS2	T2 cord	LCD 7"
ELS00152SCM700	8033049748833	FIMER Electra DC Station 150kW CHA+CCS+T2 MIDx2; ELS00152SCM700	150kW	43kW	3P+N+PE 230/400 V AC	CHAdEMO	CCS2	T2 cord	LCD 7"



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