FIMER

FIMER ELECTRA
DC Station

FIMER ELECTRA DC Station is the perfect product to offer a fast charging service, both in AC and DC, in a smart way.

60-90-120-150 kW

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.

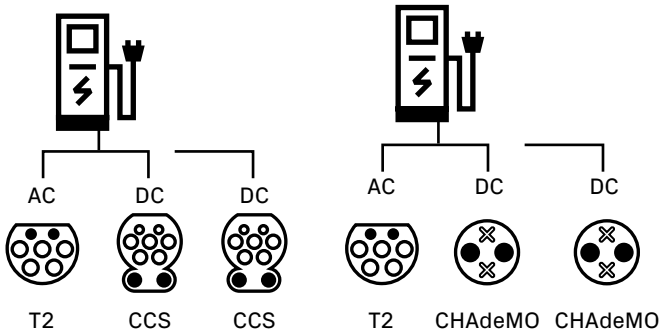
For example, assuming that a total of 60 kW are available at the station, two vehicles will be charged with 30 kW each; if one of the two disconnects, the total power of 60 kW is supplied dynamically to the remaining EV.
The same management method is followed for higher power values.

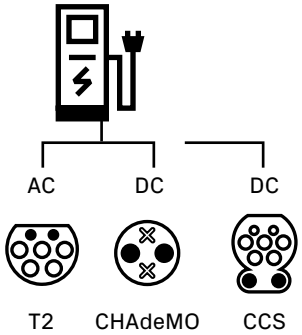
FIMER ELECTRA is designed with a modular architecture, to ensure maximum flexibility. Our station offers different configurations thanks to 4 power configurations available, from 60 to 150 kW, and plugs, CHAdeMO, CCS2, T2.
The maximum total power deliverable by the station is 150 kW for the DC side (60 + 90 kW) and 43 kW for the AC side.
FIMER ELECTRA is customizable; customers can request an illuminable LED featuring their brand at the bottom of the station.

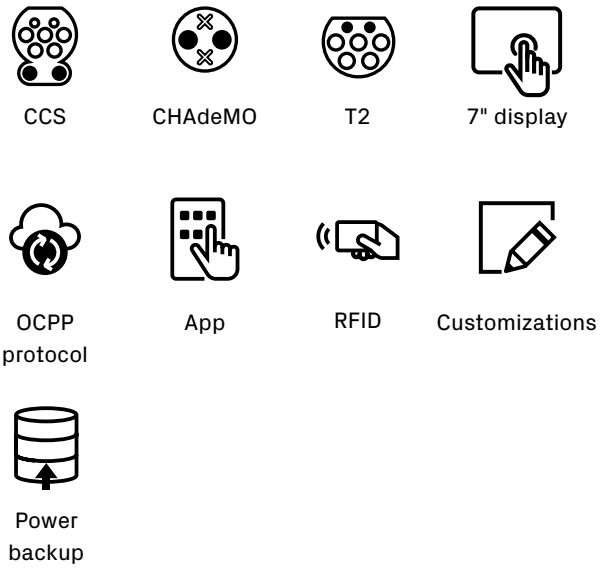
Technical specifications:
- 3 simultaneous charging sessions (2 DC + 1 AC)
- Modular architecture, from 60 kW – 90 kW – 120 kW – 150 kW
- Dynamic distribution of outgoing DC current load (internal management via data matrix contactor)
- IP 54, IK 10
- MID meter certificate
- Max 95% efficiency

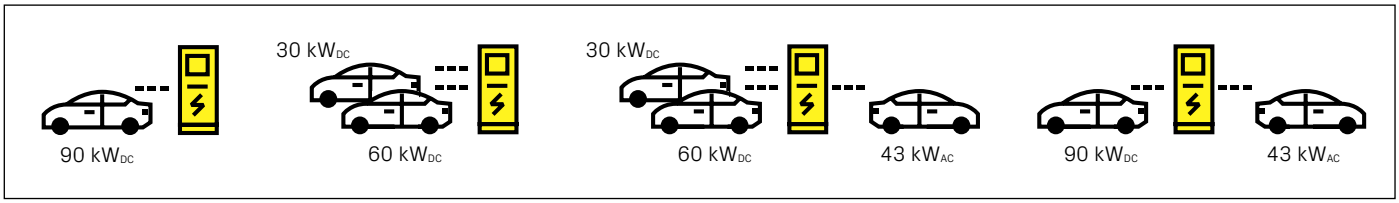
User Interface
- 7" LCD display
- RFID reader
- OCPP 1.6 Json protocol
- Ethernet, GSM/3G/4G, WLAN (optional)

Connector types
- CCS2, CHAdeMO and T2









Depending on the number of vehicles connected to the DC outputs, the station distributes its maximum power dynamically.
This picture refers to a charging station with a maximum power of 90 kW_{DC} + 43 kW_{AC}. When a second vehicle connects to the DC plug, power is dynamically shared between the two vehicles. In case two vehicles are charging and one of them concludes, the maximum power no more in use returns immediately available to the other vehicle, with an instant switching.

Technical data

FIMER ELECTRA DC Station model	60	90	120	150
Input				
Rated supply voltage [1]	400 V_{AC} ± 10% (3P + N + PE)			
Grounding system type	TT or TN (both with PE)			
Maximum rated power	110 kVA	143 kVA	176 kVA	210 kVA
Maximum rated current	159 A	207 A	255 A	304 A
Power factor	0.99			
Maximum efficiency	>95%			
THD	<5%			
Frequency	50-60 Hz			
Output				
Charging method	Mode 3, Mode 4			
Available outlets	CHAdeMO, CCS2, T2			
Maximum AC output power T2	43 kW @ 400 V, 63 A			
Rated AC output voltage T2	400 V_{AC} ± 10% [1]			
Rated AC output current T2	63 A			
Maximum DC output power CCS	60 kW	90 kW	120 kW	150 kW
Rated DC output voltage CCS	150 – 900 V_{DC}			
Maximum DC output current CCS	200 A			
Maximum DC output power CHAdeMO	60 kW			
Rated DC output voltage CHAdeMO	150 – 500 V_{DC}			
Maximum DC output current CHAdeMO	125 A			
Mechanical data				
Dimensions	690 x 1850 x 644 mm			
Charging cable length	3 m			
Weight	333 kg	355 kg	378 kg	400 kg
IK protection rating	IK 10			
Enclosure material	Galvanised steel			
Pollution degree	PD3			
Environmental data				
IP protection rating	IP 54			
Operating temperature	-25....+50°C			
Storage temperature	-25...+70°C			
Humidity	0...95% (non-condensing)			
Altitude	Up to 2000 m [2]			
Connection to the mains	Permanently connected			
Installation	Indoor/Outdoor			
Additional Information				
Product intended for use by	Unskilled person			
Positioning in area with	Non-restricted access			
Fixed or removable installation	Fixed			
Protective measures against electric shock	Class I			
Overvoltage category	IV			
Electrical protection included	RCBO, MCB, SPD			
Energy meter	MID certificate			
Network interface	GSM/3G/4G, Ethernet, WLAN (optional)			
HMI	LCD display 7" (buttons for languages selection)			
Supported languages	Italian, English, Spanish, French others on request			
Status LED	Green, red, blue, yellow			
OCPP protocol	1.6 Json			
User authentication	ISO / IEC 14443 A/B MIFARE RFID reader			
Remote SW updates by OCPP	•	•	•	•
Simultaneous charging	•	•	•	•
Emergency button	•	•	•	•
Door opening signal	•	•	•	•
Standard	IEC61851-1, IEC61851-21-2, IEC61851-23, IEC61851-24			
Certification [3]	CE, RCM, UL			

1) Please contact FIMER to check the availability of different rated voltages
2) For installation above 2000 m please contact FIMER
3) Please contact FIMER to check the certification status

Available codes

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

Remarks:

- **Designed and manufactured in Italy**
- **Features not specifically listed in the present data sheet are not included in the product**

For more information, please contact a FIMER representative or visit:

fimer.com