



AC Wallbox FIMER FLEXA

The FIMER FLEXA AC Wallbox is a wall-mounted or Stand-mounted charging device for electric vehicles designed for private applications as well as for public parking lots and company parking areas.

The FIMER FLEXA AC Wallbox can be configured with a fixed charging cable or with a socket which will be connected to an external cable. The FIMER FLEXA AC Wallbox can also be installed on a support system, in order to allow public installations and guarantee the same functionalities as standard infrastructures. Three different configurations are available, based on the power of the Wallbox (from 3.7 to 22 kW), the kind of socket (T2 and T3A) and the kind of connection to the vehicle (socket and cable). Any Wallbox can be configured in Master mode or Slave mode, in order to make installations with multiple charging points efficient (public parking lots, company parking areas, etc.) through Master/Slave management and Load Management. There are three models available: Stand Alone, Future Net and Inverter Net.

FIMER FLEXA AC Wallbox - Stand Alone

The Stand Alone version features basic functionalities which guarantee user-friendliness (plug & charge) and reduced cost of the product.

Indeed, this configuration exclusively include functionalities which are able to interact with the vehicle, activating the recharge mode and guaranteeing a safe operation:

- Status signaling through LED and RS-485 communication for the configuration, monitoring and diagnostics through local software
- Double option of cord (T2) and socket (T2 or T3A) besides the different power settings (from 3.7 to 22 kW)
- An optional functionality is the management of the charging mode activation through RFiD card and Bluetooth connection

FIMER FLEXA AC Wallbox - Future Net

The Future Net version differs from the Stand Alone model because of the integrated connectivity.

- Indeed, this version is characterized by the following features:
- Modem 3G/4G, Wi-Fi, Bluetooth and Ethernet connection
- RS-485 or Ethernet communication for multiple master/slave configuration
- ISO 15118 module
- Compatibility with the external PLC through Ethernet connection
- Management of the external MID meter
- Management of loads though the Load Management Control
- RCD type A opening function
- · Management of the external magnetic current transformer (included in the monophase version only)

FIMER FLEXA AC Wallbox - Inverter Net

The Inverter Net version provides the same functionalities as the Future Net one, but it also allows to establish a connection with residential FIMER inverters. Such feature, in turn, allows:

- To share and store data through the interaction between the systems
- Load management and use of the storage system
- Shared portal for an easy data reading and management

All versions include the following main features:

- Type 2 plug (cord version) and type 2 socket (socket version)
- Charging mode / Case: 2 and 3
- Load manager, master-slave and RFiD reader functions
- Lock retention of the socket during charging (socket version)
- · Bluetooth and Wi-Fi connectivity
- Recycled plastic 100%
- Built-in flash memory to store and save data
- Anti-intrusion magnet
- RCD type A opening function
- External magnetic current transformer and meter mid for energy reading
- · Mounting onto Wallbox Stand and management of its built-in electric protections (HCB + RCD type A)
- Mounting flexibility

Signaling and control

- Color-coded status LED for each socket (stand-by/ready to use, charging faulty); the color sequence can be amended and customized based on the country and/or on the project
- · Authentication and release through RFiD reader
- OCPP 1.6 Json protocol

Types of connectors

- Connector type T2; type T3A / cord
- EV standard EN 61851-

- 22 kW

OCCP 1.6

Json protocol





Wi-Fi

22 kW

T2 - T3A



Type of installation

RFiD

reader





Load Management

Master/slave

Technical data									
AC Wallbox Model	FIMER FLEXA-03		FIMER FLEXA-07		FIMER FLEXA-11		FIMER FLEXA-22		
Vehicle connection	Socket	Cord	Socket	Cord	Socket	Cord	Socket	Cord	
Maximum cable length	-	5 m	-	5 m	-	5 m	-	5 m	
Maximum AC power	3,7 kW		7,4 kW		11 kW		22 kW		
Type of socket	Type 2 ² / T3A								
Operating voltage		1X 230VAC +/-10% (50 🖩 60 HZ) 3x 400V _{AC} +/-10% (50 🖷 60 Hz)							
Frequency				50/60	50/60 Hz				
Poles		1P +	P + N + PE			3P + I	N + PE		
Maximum current deliverable	1 x 1	1 x 16 A		1 x 32 A		3 x 16 A		3 x 32 A	
IP protection class	IP 55								
Casing material	Recycled plastic 100%								
IK protection class (external impacts)	IK08								
Dimensions	Approx. 275 X 480 X 140 mm.								
Weight	7 kg (socket), 8,5 kg (cord)								
Back-up power supply	Supercap								
Environment data									
Operating temperature	-25°C 50°C								
Storage temperature	-25°C 70°C								
Humidity	0 % 95 % (without condensation)								
Altitude	Up to 2000 m								
Type of installation	Wall/stand								
Further details								_	
Energy meter (external)	Meter MID (Modbus communication) or measurement TA								
Plug-socket	PWM-CP, PP 1)								
Fire protection	UL94 V-0 (self-extinguishing)								
Automatic differential protection device	Not built-in (optional external type A configuration)								
Connectivity	Ethernet, Wi-Fi. BLE, modem LTE 3G/4G								
OCCP	1.6 Json								
Configurations	Socket T2/T3A, Plug T2/GB/T								
Installation stand	Single/double point								

Configurations	Stand Alone	Future Net	Inverter Net			
Energy meter (built-in)	•	•	•			
Customizable brand	•	•	•			
Overheat protection	•	•	•			
Residual Current Monitoring (RCM)	•	•	•			
RFiD reader	•	•	•			
RCD opening function	•	•	•			
Anti-intrusion magnet	•	•	•			
Dynamic energy consumption management (Load Management)	-	• 3)	• 3)			
Master/Slave	Slave	Master	Master			
Inverter interface	-	-	•			
Remote SW update	-	•	•			
ISO 15118 module	-	•	•			
Stack TCP/IP management	-	•	•			
Options						
Power supply connection	European standard schuko or other standards					
Output power	< 3,7					
Output current	6/8/10 A					
TFT display	-	•	•			
USD	-	٠	•			
Monitoring and diagnostics management SW	•	•	•			
Electric protections	٠	٠	•			
External MID meters	-	٠	•			
Certifications						
EU	•	•	•			
UL	•	•	•			
EMA	Optional					
AU	Optional					

Complies with IEC 61851-1.
Complies with IEC 62196-2.
Static and dynamic management.

Remark. Features not specifically listed in the present data sheet are not included in the product



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