



# EV Charger

## AC-EVC-030 Future Net

The FIMER AC EV Charger line is based on solidity and functionality, in compliance with the international IEC 61851-1 standard.

AC-EVC-030 Future Net is a 2x22kW fully connected charging point operating in networked mode, intelligently connected to internet through modem with OCPP Protocol, allowing a complete management of all parameters, accounting and payments systems available on mobile Apps.

**2x22 kW**

Two Type 2 sockets, equipped with all the measurement and protection systems, electromechanical retention during charging, communication with the electric vehicle, connection monitoring and regulation of the current through PWM and differential protection circuit breaker type B.

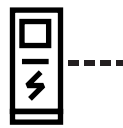
- Color-coded Status LED for each socket (Ready to use, Charging, Alarm, etc ...)
- Smart fault management, with automatic or remotely controllable reclosure of the circuit breaker.
- Internal load manager for the distribution of the maximum load set by the user, between the two sockets.
- Plug & Charge operating mode.
- Back-up power supply with super "Supercap" capacitors.
- Internal temperature sensors.
- Stainless steel case.
- An intelligent remote monitoring and control system with an app for the customer and with a dashboard for the operator,
- OLED display with status, kWh counter, instantaneous kW, etc ...



2x22 kW

Display  
OLED

RFID



Remote



App



OCPP



Custom

- RFID reader for user authentication and recharge management.
- Optional remote monitoring capabilities via modem with OCPP 1.5 / 1.6 protocol.
- Charging sockets equipped with protection and safety systems
- Automatic re-close differential breaker
- Type 2 socket for electric vehicles with vandal-proof
- Internal Load Manager
- External management system - MODBUS TCP/IP-OCPP
- Internal diagnostics system with "maintenance portal"

#### Signaling and control

- Status LEDs and light signaling
- Display OLED 2x22 characters

#### Types of connectors

- Connector Type 2
- IEC/EN 62196-2
- Station fixed socket
- Connector used for AC recharging up to 22 kW

### Technical data

Model	AC-EVC-030			
Charging mode / Case	Mode 3, case B <sup>1)</sup>			
Type of sockets	Type 2 <sup>2)</sup>			
Maximum AC power	2x22 kW			
Operating voltage	3x 400V <sub>AC</sub> +/- 10% (50 o 60 Hz)			
Maximum current deliverable	32A			
IP protection class	IP 54			
Casing material	Stainless steel AISI 304			
IK protection class (external impacts)	IK10			
Dimensions	1315x437x293			
Weight	48 Kg			
<b>Environment data</b>				
Operating temperature	-25°C ... 50°C			
Storage temperatures	-25°C ... 70°C			
Humidity	0 % ... 95 % (without condensation)			
Altitude	Up to 2000m			
Type of installation	Suitable also for outdoor installation			
<b>Internal components</b>				
Circuit breaker protection switch	4X D40			
Leakage detect protection	According to IEC 61851, made by RCM (RCD Type B optional)			
Energy Meter	MID certified 3ph + N	3x400/230V kWh Class B <sup>3)</sup>	kWh Class 1 <sup>4)</sup> kVar Class 2 <sup>5)</sup>	RS485 monitor
Contactor	4xNO 40A, AC-1 @40°C		Aux Contact 1xNO + 1xNC	
Plug-Socket	PWM-CP, PP <sup>1)</sup>			
<b>Electronic control board</b>				
Board power supply voltage	24 V <sub>DC</sub> ±5%			
Internal diagnostic systems	Measurement of all internal tensions	Monitoring of internal temperatures	Monitoring of the status of the contactor and of the circuit-breaker	Ground fault reclosure system Monitoring of electromechanical component states
Electronic control board	Microprocessor			

1) According to IEC 61851-1.  
2) According to IEC 62196-2.  
3) According to EN50470-3.  
4) According to EN62053-21.

5) According to EN62053-23.

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



For more information please contact your local FIMER representative or visit:

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