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EV Charger
AC-EVC-020 Local Controller

The FIMER AC EV Charger line is based on solidity and functionality, in compliance with the international IEC 61851-1 standard.
AC-EVC-020 Local controller is a 2x22kW charging station equipped with RFiD local recognition system and auto-programming functions, allowing individual charging and providing efficient security and authorizations management.

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 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 operation mode.
- Back-up power supply with super “Supercap” capacitors.
- Internal temperature sensors.
- Stainless steel case.
- OLED display with status, kWh counter, instantaneous kW, etc ...
- RFiD reader for user authentication and recharge management.
- Charging sockets equipped with protection and safety systems
- Automatic re-close differential breaker
- Shutter-type auto reclosing sockets, vandal-proof
- Internal Load Manager
- External management system - MODBUS TCP/IP

Signaling and control

- Status LEDs and light signaling
- Display OLED 2x22 characters
- Authentication and unlocking systems via RFiD

Types of connectors

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

2x22 kW | Display OLED | RFID | Remote

Technical data

Model	AC-EVC-020			
Charging mode / Case	**Mode 3, case B** [1]			
Type of sockets	**Type 2** [2]			
Maximum AC power	**2x22 kW**			
Operating voltage	3x 400V_{AC} +/-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			
Enviroment data				
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			
Internal components				
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 [3]	kWh Class 1 [4] kVar Class 2 [5]	RS485 monitor
Contactor	4xNO 40A, AC-1 @40°C		Aux Contact 1xNO + 1xNC	
Plug-socket	PWM-CP, PP [1]			
Electronic control board				
Board power supply voltage	24 V_{DC} ±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

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

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