

EACharger AC Datasheet

A reliable solution for hyper-fast charging in public places, including highways, shopping centers, gas stations, and other high-traffic areas. This rapid and easy-to-set-up DC charging station accommodates the full range of EVs, from the tiniest electric cars to electric buses and heavy-duty vehicles. It is an ideal choice for end-users, fleet operators, city bus and trucking companies, offering seamless integration with any Charge Point Operator network.



General Parameters

Product Line	EACharger AC
Series	Workplace, Public and Special
Execution	W (Wall mounted), F (Freestanding pole)
Application	Indoor or Outdoor
Charging System	AC Mode 3
Charge Speed	Level 2
EMC (IEC 610000-6-3)	Class B
Number of Channels	Up to 2 channels
Station Rated Power	from 22kW up to 44kW
Connector Types	Type 2

Environment Conditions

Humidity %	5 ... 95 RH Non-condensing
Operating Altitude	Max. 2000m
Operating Temperature	-35 ... +55 °C

Housing

Vandal-proof	Yes
Protection Level	IP54 / IK10 (Impact energy 20 Joule)
Access to Internal Section	With tools
Material	Al, polymer coating
Housing Color	Grey-Black by default, customizable for commercial use
Dimensions	450 x 600 x 200 mm (without Freestanding pole)
Weight	Charger weight is about 35 kg (without freestanding pole).

Input parameters

Voltage, V	3 x 400/230VAC ±10%, 3P-5W
Frequency, Hz	50/60 ±5%
Input terminal cross-section range	10 -16 mm ²
Power Factor	Min. 0.98 (Load ≥50%)

Output parameters

Number of Outputs	Up to 2 channels
Channel Output Power	Up to 22 kW (3 phase 400V)
Output type	Type 2; Socket or Connector with cable

Main Protections

Overcurrent/Overload Protection	MCB with status signal contacts and manual recovery after shut down
Earth/Ground/Leakage Protection	RCCB Type A 30mA with RS-485 control
Overvoltage Protection	SPD Class II (EN 61643-11) with status signal contacts
Welding Protection	AUX signal contact monitoring as part of power contactor

Functions By Default

Display	Display 10.1" with capacitive touchscreen (ENG menu)
Energy Metering	Smart MID E-Meter at each channel
Charge Protocol	Control Pilot with PWM 1kHz without HLC/PLC
Internal Communication Protocol	RS-485 ModBus RTU
External Communication Protocol	RS-485 ModBus RTU
Autoreclosing of MCB & RCCB	Special control and monitoring algorithm via RS-485

Self Consumption	Up to 30W without Auto-heater
Status monitoring of MCB & RCCB	FULL control & monitoring via RS-485
Basic Charger	1 channel 22kW
Optional Functions	
Spiraled Cable with Plug Type2	Up to 5m or Nonstandard Cable length
Socket Type2	With Actuator
Adjustable Auto Heater	To prevent condensation
Backup Supply with Built-in Charger	For proper completion of the charging
Freestanding Pole	Pre ordering
Second Channel 22kW	As socket or cable
Special Housing Color	Customizable for commercial use
RFID/NFC Reader with 10-100 Keys	For user physical authentication
OCPP with LTE Modem	WEB interface/Remote Software Update/DLM
RGB 3-Color Status	RGB LED 3-Color Tower
Vandalism Indicator	Pre ordering
ISO15118 with PLC Modem	At each channel separately
Emergency STOP Button	For manually shutting down a charging station
Payment Terminal POS	In case with one channel
Standards	
IIEC 61851-1, IEC 61851-22, EN 61643-11, IEC 62196-2, EN62052-11, EN62053-21, EN61010-1	
CE Declaration, Directives 2014/30/EU, 2014/35/EU, 2014/53/EU	
Operation and Maintenance Manual; Passport with Warranty certificate	



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