AC charging stations (“wallbox”) EVmate for electric cars and plug-in hybrids

Safe solution for fast charging of electric cars. The EVmate wall-mounted charging station is designed for safe and fast AC charging (charging mode 3, up to 22 kW), indoors or outdoors, for various types and models of electric cars, for charging in residential or commercial buildings (hotels, company car parks, administration, etc.). The charging station allows easy installation and operation, it can be equipped with wireless access control (RFID) and communication module RS485 (for integration into general control systems).

EVmate wallbox:



- provides a single or three-phase connection enabling charging with a power according to versions 3.7 kW to 22 kW
- is always equipped with a built-in charging cable enabling convenient daily charging
- models with type 1 ("Yazaki") or 2 ("Mennekes") charging connector to choose from
- it is by standard equipped with a built-in residual AC&DC current sensor
- can be supplied in two different versions of electrical connections. In the version with tethered power cable with a five-pin three-phase socket (16A or 32A version) or as version without a power supply cable, while wallbox can be installed directly where the power cable is led out (for example directly from the wall). The power supply is then connected directly in the charging station to the prepared terminals.
- has a high level of IP protection and thus allows the installation of a wallbox both in the garage and in the outdoor environment, e.g. in the parking lot, outside the building, etc.
- is by standard produced in the version with increased UV protection for outdoor installation
- is fully certified and the individual components and the entire station meet the highest standards and norms for charging electric cars
- is fully configurable within the intuitive configurator at www.evmate.cz
- is extensible with access control via wireless identification (card, chip, etc.)
- is optionally equipped with RS485 interface for superior control (e.g. EMS, open to customer implementation /*Evmate has limited resources and doesn’t support individual implementation*)
- robust installation stand (galvanized + powder-coated) available as optional accessory

Technical parameters

INPUT

Number of phases	variants 1 (1P+N) / 3 (3P+N)
Rated voltage	variants 230 V / 400V (3x230 V)
Rated frequency	50/60 Hz (+/- 1 %)
Max. input current	variants 16 A / 25A / 32 A
Integrated power cable	optional, yes (standard 2 m) / no
Earthing system	TN-S or TN-C-S, TT (subject to modifications of earthing protection)

OUTPUT

Number of charging points	1
Rated power	variants 3,7 kW / 7,4 kW / 11 kW / 17kW / 22 kW
Tethered charging cable	yes, variants type 1 / type 2
Length of charging cable	standard 5 m / variants 2-8 m
Cable holder	yes
Charging station cover	yes

FUNCTIONS

Automatic charging control ext.	available as accessories, yes (RS485, control according to consumption, PV, etc.)
Manual charging control ext.	available as accessories yes
Reduction of charging power	possible
HDO charge timer / control	possible
Access control	available as accessories, yes, RFID (MIFARE)
Power / standby indication	yes, LED
Status indication	yes, LED
Error indication	yes, LED
Access indication (RFID)	yes, part of RFID module (available as accessories), LED
Configuration options	yes, within the configurator www.evmate.cz

GENERAL

IP protection level	IP54, according to DIN EN 60529 (VDE 0470-1)
Inflammable rating	yes, V0 / V2 (UL94)
UV protection	yes
Operating temperature	range -30 ° to +50 ° C
Storage temperature	range -30 ° to +80 ° C
Permissible relative humidity	5% to 95%, no condensation
Certification	yes, CE, declaration of conformity, EZÚ certification
Weight	
EVmate 01/1 or 2 -1-16	approx. 4 kg
EVmate 01/1 or 2 -1-25	approx. 5 kg
EVmate 01/1 or 2 -1-32	approx. 5 kg
EVmate 01 / 2-3-16	approx. 6 kg
EVmate 01 / 2-3-25	approx. 7 kg
EVmate 01 / 2-3-32	approx. 7 kg (all parts are included in the delivery), the weight may differ depending on the length of the cables
Dimensions (l x w x d)	300x300x90 mm (without cables)
Shipping dimensions	600x400x200mm

TYPES

Model	Input current	Charging connector	No. of phases	Output power
EVmate 01/1-1-16	1 x 16A	type 1	1	3,7kW
EVmate 01/1-1-25	1 x 25A	type 1	1	5,7kW
EVmate 01/1-1-32	1 x 32A	type 1	1	7,4kW
EVmate 01/2-1-16	1 x 16A	type 2	1	3,7kW
EVmate 01/2-1-25	1 x 25A	type 2	1	5,7kW
EVmate 01/2-1-32	1 x 32A	type 2	1	7,4kW
EVmate 01/2-3-16	3 x 16A	type 2	3	11kW
EVmate 01/2-3-25	3 x 25A	type 2	3	17kW
EVmate 01/2-3-32	3 x 32A	type 2	3	22kW

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