

ecoMOTOhome

AC electric vehicle charging stations

Special features:

High ergonomics

- user-friendly operation
- clear touch screen
- support contactless cards (RFID)

Fully manageable

- management via the OCPP protocol
- management through the WebPark system
- management by another parent system

Ideal

- for garages
- mounting on walls in houses
- office buildings
- hotel underground parking garages

Parking system

- as an added value
- in a car park (for residents' contractors)

Secure

- made of LDX duplex steel sheet
- 3 security levels
- built-in emergency switch
 - alarm system (optional)

Modular design

- any colours
- power from 22kW to 44kW AC
- socket adaptation possible

Recommendations and certificates

- Eco Inspiration 2017
- EcoVadis 2017 silver rank

The ecoMOTOhome charging stations are charging stations for electric vehicles, designed for installation on the walls of buildings or special posts.

The ecoMOTOhome charging stations are easy to use devices, equipped with a 7" touch screen, by means of which the driver selects the amount of electricity and position. Payment for energy consumption or user identification can be made using a MiFare proximity card (resident/employee card, city card).

The ecoMOTOhome vehicle charging stations can be equipped with up to three voltage circuits with cables terminated with a plug of typical standards Mode 3, Type 2. The voltage circuit(s) is/are metered by electricity meters. For safety, the station has been equipped with an emergency power switch. It also features a system enabling remote supervision, administration and servicing of the device.

The ecoMOTOhome electric vehicle charging stations comply with the following standards:

- PN-EN ISO 14001 regarding the use of materials that are not harmful to the environment, noise, heat and electromagnetic interference;
- PN-EN 60950 regarding safety,
- EN 61851 specifying e.g. characteristics and operating conditions as well as safety requirements for EV power equipment.



Specifications

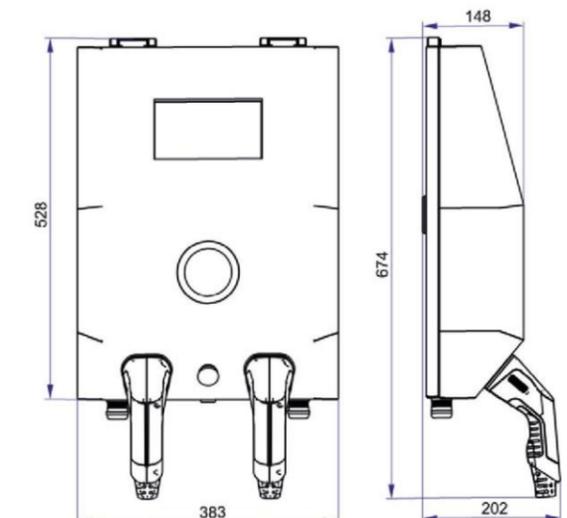
TPE2C configuration

TPE2B configuration

TPE2A configuration



	TPE2C configuration	TPE2B configuration	TPE2A configuration
Basic information			
Cable with three-phase plug	2 x Mode 3 Type 2 - max. 22kW	Mode 3 Type 2 (max. 22kW)	Mode 3 Type 2 (max. 44kW)
Power consumption measurement	MID meters	MID meters	MID meters
Operation status indication	multicolour ring-shaped LED indicator	multicolour ring-shaped LED indicator	multicolour ring-shaped LED indicator
Safety			
Protection of charging circuits	overcurrent (MCB) 32A char. A	overcurrent (MCB) 32A char. A	overcurrent (MCB) 63A char. A
Electrical protection of all station circuits	residual current (RCD) type A;	residual current (RCD) type A;	residual current (RCD) type A;
Connection of the vehicle power cables	anti-interference	anti-interference	anti-interference
Control voltage (internal)	potential free	potential free	potential free
	12VDC	12VDC	12VDC
Power supply for the charging station			
Power supply system	Three-phase TN-S or TT system with grounding	Three-phase TN-S or TT system with grounding	Three-phase TN-S or TT system with grounding
Supply voltage	3x 230VAC ±10% 50Hz ±1 % (acc. to PN-EN 60038:2012)	3x 230VAC ±10% 50Hz ±1 % (acc. to PN-EN 60038:2012)	3x 230VAC ±10% 50Hz ±1 % (acc. to PN-EN 60038:2012)
Power transmitted by the station (max.)	2 x 22kW	22kW	44 kW
Max. power of the station circuits	20W	20W	20W
Power factor of the station circ. (cos φ)	>0.90	>0.90	>0.90
Power factor of the charging circuits (cos φ)	Depends on the vehicles supported - the station does not distort the power factor in the charging circuits	Depends on the vehicles supported - the station does not distort the power factor in the charging circuits	Depends on the vehicles supported - the station does not distort the power factor in the charging circuits
Control, communication, display			
Controller	4-core processor; 4GB RAM; SD 64GB, with a hardware and software watchdog	4-core processor; 4GB RAM; SD 64GB, with a hardware and software watchdog	4-core processor; 4GB RAM; SD 64GB, with a hardware and software watchdog
Communication interface	Fast Ethernet 10/100Mbps	Fast Ethernet 10/100Mbps	Fast Ethernet 10/100Mbps
Port type	RJ45	RJ45	RJ45
Supported protocols	TCP/IP; OCPP v1.5	TCP/IP; OCPP v1.5	TCP/IP; OCPP v1.5
Display type	LCD TFT 7"	LCD TFT 7"	LCD TFT 7"
Contrast	600:1	600:1	600:1
Display brightness	500 cd/m ²	500 cd/m ²	500 cd/m ²
Viewing angle horizontal/vertical	min. 120° (±60°) / min. 100° (±50°)	min. 120° (±60°) / min. 100° (±50°)	min. 120° (±60°) / min. 100° (±50°)
Touch display type	capacitive	capacitive	capacitive
Housing			
Dimensions (W/H/D)	383/528/148 [mm]	303/528/148 [mm]	371/534/135 [mm]
Weight	18kg	15kg	22kg
Working temperature range	0°C to +45°C	0°C to +45°C	0°C to +45°C
Ingress protection	IP-54 (acc. to PN-EN 60529:2003)	IP-54 (acc. to PN-EN 60529:2003)	IP-40 (acc. to PN-EN 60529:2003)





KZŁ Bydgoszcz is an innovative company with many years of experience in creating advanced systems of dynamic passenger information, dispatching communication systems, ticketing and parking systems. By choosing our offer, you are betting on proven, reliable, Polish solutions and quick support during the use of the systems. Railway Communications Works Sp. z o. o. is a manufacturer of devices and systems with over 165 years of tradition. Our company develops proprietary mechanical, electronic and programming solutions.

The system solutions delivered by KZŁ are a response to the latest trends in the transport and IT sectors and correspond directly with the electromobility policy implemented in Poland.



EcoVadis
SILVER RANK

Distribution, assembly and service carried out by Enea Serwis sp. z o.o. on the premises of ENEA S.A.



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EcoMOTOhome CHARGING STATIONS

