ECOFRONTS SMART EV CHARGING SOLUTIONS

PRODUCT GUIDE 3.0

ZHEJIANG POPU ELECTRIC CO., LTD
www.popu-elec.com

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Factory Profile

About Us

Rooted in Yuqing, Wenzhou, Zhejiang Province in China, Zhejiang Popu Electric Co., Ltd is at the forefront of the smart EV charger manufacturing. Since early 2015, we started heavy investment in the R&D of the EV charging solutions. Thanks to our dedicated efforts and unraveling commitment to bring safer, more reliable and robust products to the market, we have successfully developed series of high quality EV charging solutions for our customers, such as wall boxes, portables, charging cables and adapters etc. Our dedication in research and development and implementation of LEAN Six Sigma in the manufacturing process have made our products outstanding and fueled our fast business growth. Our EV charging solutions have been sold to more than 30 countries across the world.

Our Mission

Our mission is to bring fast, convenient, and affordable EV charging solutions to customers across the globe.

We believe our customers always deserve better, whether it's product offerings, costs, delivery lead time or the swift response from our account team. We are committed to constantly innovating in the smart EV charging technology and meanwhile to driving the efficiency of our operations and supply chain to new levels. And we strive to provide the very best customer services along with the expertise that we have gained from our manufacturing and operations in the smart EV charger industry for over 10 years.

Our Advantages

- Dedication in product innovation
- Lean six-sigma implementation in manufacturing
- Superior customer services
- Best possible affordability

We are the experts in the OEM/ODM services of smart EV charging solutions. Drop us a line and we will be happy to help you find a solution.

Contact Us

Zhejiang Popu Electric Co., Ltd

Email: sales@popu-elec.com

Whatsapp: +86 1560 1863 199

Tel: +86 1560 1863 199

www.popu-elec.com

Address: No. 201, Weiwu Road, Yueqing Economy Development Zone, Wenzhou, 325600, Zhejiang Province, P.R. China

Factory Tour

Product Testing Center

Sub-assembly workshop

Final Assembly Workshop

Product Certificates

All of our products are tested and in compliance with relevant standards (CE, CB, UKCA, TUV, RoHS, REACH, where applicable).

ATTESTATION
of conformity with European Directives

BV LCIE CHINA Number N°2266AS02ACFU44113
Product AC Charging plug / connector for conductive charging of Electric Vehicle
Reference EVC-M2F2-132, EVC-M2F2-116, EVC-M2F2-332, EVC-M2F2-316, ETC-FP132-TC2, ETC-FP316-TC2, ETC-FP332-TC2, ETC-FP316-TC2
Issued to Zhejiang INOVUS Technology Co., Ltd
Address No 201, Weiwu Road, Yueqing Economy Development Zone, Wenzhou City, Zhejiang, China
Manufacturer Zhejiang Popu Electric Co., Ltd
Technical characteristics 16/32A 240/415V~

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and following standards:
LVD Directive 2014/35/EU

Standards	Report number	Report date
EN 62196-2:2017 for use in conjunction with EN 62196-1:2014	ACFU-ESH-P21100087	14/01/2022

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive
This verification does not imply assessment of the production of the product
The CE marking may be affixed if all relevant and effective European Directives with CE are applicable

Shanghai (P.R. China), January 21st, 2022
Charlie CHEN
Product Line Manager

This document shall not be reproduced, except in full, without the written approval of BV LCIE China. Information given in this document, are related to the tested specimen of the described electrical sample.
Version: 7.0 / Feb.10, 2021 Page 1 of 1
LCIE CHINA COMPANY LIMITED Building 4, No. 555, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai P.R.C (201612) Tel: +86 21 6105 7000 Fax: +86 21 6105 7001 Email: contact@bureauveritas.com

BV CPS CHINA Number N° 086666232570964
1 OF 2

Verification
of conformity with European Directives

Product AC Charging plug/ connector for conductive charging of Electric Vehicle
Type References EVC-M2F2-332
Additional Type References /
Issued to ZHEJIANG POPU ELECTRIC CO., LTD
Address NO 201, WEIWU ROAD, YUEQING ECONOMY DEVELOPMENT ZONE, WENZHOU CITY, ZHEJIANG, CHINA
Manufacturer /
Sample Description: AC Charging plug/ connector for conductive charging of Electric Vehicle

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and following standards:

2011/65/EU Restriction of the use of hazardous substance directive (RoHS) with its Amendments (EU) 2015/863

Standards	Report number	Report date
- IEC 62321-1: 2013 - IEC 62321-2: 2021 - IEC 62321-3-1: 2013 - IEC 62321-4: 2013+AMD1: 2017 - IEC 62321-5: 2013 - IEC 62321-6: 2015 - IEC 62321-7-1: 2015 - IEC 62321-7-2: 2017 - IEC 62321-8: 2017	(6623)257-0964	September 22, 2023

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive
This verification does not imply assessment of the production of the product
The CE marking may be affixed if all relevant and effective European Directives with CE are applicable

Shanghai (P.R. China), July 22, 2022
Analytical Lab
Gorden Yu
Gorden Yu
Lab Manager

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BV CPS CHINA No. 368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai China, 201108 Tel: +86 21 24106888 Fax: +86 21 64865391 Email: contact@cn.bureauveritas.com

ATTESTATION
of conformity

BV LCIE CHINA Number N° 2266AS02ACFU44271
Product AC Charging plug / connector for conductive charging of Electric Vehicle
Reference EVC-M2F2-132, EVC-M2F2-116, EVC-M2F2-332, EVC-M2F2-316, ETC-FP132-TC2, ETC-FP316-TC2, ETC-FP332-TC2, ETC-FP316-TC2
Issued to Zhejiang Popu Electric Co., Ltd
Address No 201, Weiwu Road, Yueqing Economy Development Zone, Wenzhou City, Zhejiang, China
Manufacturer Zhejiang Popu Electric Co., Ltd
Technical characteristics 16/32A 240/415V~

The submitted sample of the above equipment has been tested for the below regulation(s):
- Electrical Equipment (Safety) Regulations 2016*
* Electrical equipment below the voltage limits.

Standards	Report number	Report date
BS EN 62196-2:2017 for use in conjunction with BS EN 62196-1:2014	ACFU-ESH-P22020852	24/02/2022

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of conformity with the principle elements of the safety objectives covered by that standards
This verification does not imply assessment of the production of the product
The UKCA marking may be affixed on the product if other relevant UK legislations are fulfilled

Shanghai (P.R. China), April 21st, 2022
Charlie CHEN
Product Line Manager

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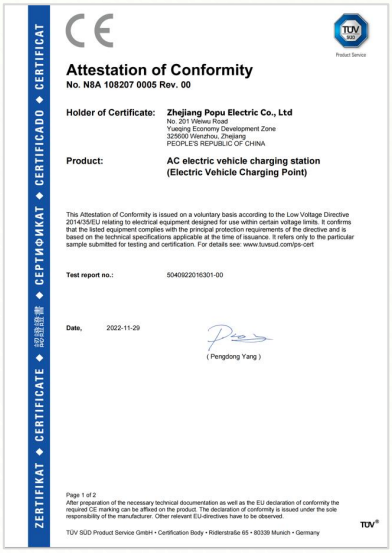
Version: 1.0 / Feb.18, 2021 Page 1 of 1
LCIE CHINA COMPANY LIMITED Building 4, No. 555, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai P.R.C (201612) Tel: +86 21 6105 7000 Fax: +86 21 6105 7001 Email: contact@bureauveritas.com

CERTIFICATE
ATTESTATION CERTIFICATE
OF ELECTROMAGNETIC
COMPATIBILITY AND LOW VOLTAGE DIRECTIVES
Technical file of the company mentioned below has been observed and audit has been completed successfully.
2014/30/EU Electromagnetic Compatibility Directive and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : Zhejiang Popu Electric Co., Ltd
Company Address : Mahjiao Industrial Zone, Beibaixiang Town, Yueqing, Zhejiang, China
Related Directives and Annex : 2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN IEC 61851-1:2019, EN IEC 61851-21-2:2021
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
Product Name : AC Charging Station
Report No and Date : TLGD2208184058 6, TEGD2208184058 7
Product Brand/Model/Type : mindian // MDAC-3.5kW, MDAC-7kW, MDAC-11kW, MDAC-14kW, MDAC-22kW, MDAC-44kW, MDAC-88kW

Certificate Number : M.2022.206.C76881
Initial Assessment Date : 24.08.2022
Registration Date : 25.08.2022
Reissue Date/No : -
Expiry Date : 24.08.2027
UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The owner named then must keep a copy of the certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be notified in case of any changes on the product(s).
Address: Mutlukent Mahallesi 2073 Sokak (Eski 15 Sokak) No:10 Çankaya – Ankara – TÜRKEY
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
E-mail: info@udemtrkd.com.tr www.udem.com.tr



ZERTIFIKAT ◆ CERTIFICATE ◆ CEPTIФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Attestation of Conformity
No. N8A 108207 0005 Rev. 00

Holder of Certificate: Zhejiang Popu Electric Co., Ltd
No. 201 Weiwu Road
Yueqing Economy Development Zone
325600 Wenzhou, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: AC electric vehicle charging station
(Electric Vehicle Charging Point)

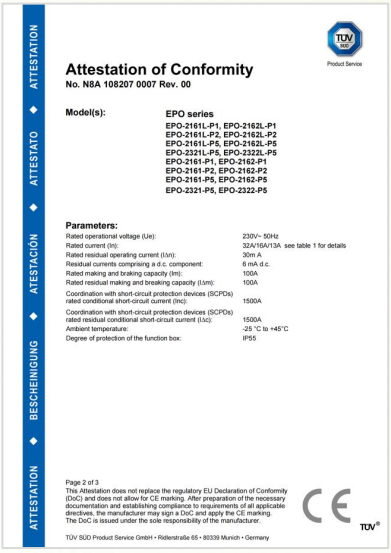
This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 50409220163 01-00

Date, 2022-11-29
(Pengdong Yang)

Page 1 of 2
After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Attestation of Conformity
No. N8A 108207 0007 Rev. 00

Model(s): EPO series
EPO-2161L-P1, EPO-2162L-P1
EPO-2161L-P2, EPO-2162L-P2
EPO-2161L-P5, EPO-2162L-P5
EPO-2321L-P5, EPO-2322L-P5
EPO-2161-P1, EPO-2162-P1
EPO-2161-P2, EPO-2162-P2
EPO-2161-P5, EPO-2162-P5
EPO-2321-P5, EPO-2322-P5

Parameters:

Rated operational voltage (Ue):	230V~ 50Hz
Rated current (In):	32A/16A/13A see table 1 for details
Rated residual operating current (I:n):	30m A
Residual currents comprising a d.c. component:	6 mA d.c.
Rated making and braking capacity (Im):	100A
Rated residual making and breaking capacity (I:m):	100A
Coordination with short-circuit protection devices (SCPDs) rated conditional short-circuit current (Inc):	1500A
Coordination with short-circuit protection devices (SCPDs) rated residual conditional short-circuit current (I:c):	1500A
Ambient temperature:	-25 °C to +45°C
Degree of protection of the function box:	IP55

Page 2 of 3
This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking.
The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Attestation of Conformity
No. N8A 108207 0007 Rev. 00

Holder of Attestation: Zhejiang Popu Electric Co., Ltd
No. 201 Weiwu Road
Yueqing Economy Development Zone
325600 Wenzhou, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 64105223028701

Date, 2023-08-10
(Glenn Liu)

Page 1 of 3
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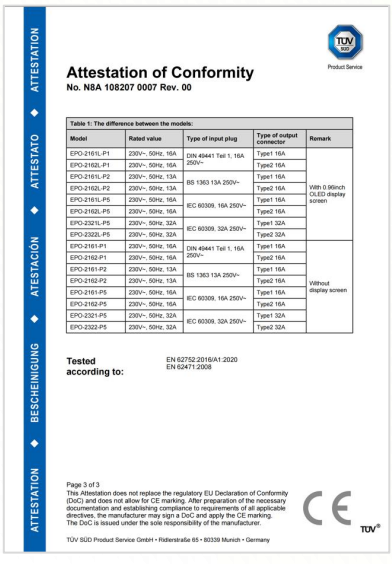
The DoC is issued under the sole responsibility of the manufacturer.

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany



ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Attestation of Conformity
No. N8A 108207 0007 Rev. 00

Table 1: The difference between the models:				
Model	Rated value	Type of input plug	Type of output connector	Remark
EPO-2161L-P1	230V~, 50Hz, 16A	DIN 49441 Teil 1, 16A 250V~	Type1 16A	With 0.96inch OLED display screen
EPO-2162L-P1	230V~, 50Hz, 16A		Type2 16A	
EPO-2161L-P2	230V~, 50Hz, 13A	BS 1363 13A 250V~	Type1 16A	
EPO-2162L-P2	230V~, 50Hz, 13A		Type2 16A	
EPO-2161L-P5	230V~, 50Hz, 16A	IEC 60309, 16A 250V~	Type1 16A	
EPO-2162L-P5	230V~, 50Hz, 16A		Type2 16A	
EPO-2321L-P5	230V~, 50Hz, 32A	IEC 60309, 32A 250V~	Type2 32A	
EPO-2322L-P5	230V~, 50Hz, 32A		Type2 32A	
EPO-2161-P1	230V~, 50Hz, 16A	DIN 49441 Teil 1, 16A 250V~	Type1 16A	Without display screen
EPO-2162-P1	230V~, 50Hz, 16A		Type2 16A	
EPO-2161-P2	230V~, 50Hz, 13A	BS 1363 13A 250V~	Type1 16A	
EPO-2162-P2	230V~, 50Hz, 13A		Type2 16A	
EPO-2161-P5	230V~, 50Hz, 16A	IEC 60309, 16A 250V~	Type1 16A	
EPO-2162-P5	230V~, 50Hz, 16A		Type2 16A	
EPO-2321-P5	230V~, 50Hz, 32A	IEC 60309, 32A 250V~	Type1 32A	
EPO-2322-P5	230V~, 50Hz, 32A		Type2 32A	

Tested according to: EN 62752:2016/A1:2020
EN 62471:2008

Page 3 of 3
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The DoC is issued under the sole responsibility of the manufacturer.

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2014/30/EU Electromagnetic Compatibility Directive
Related Standards : EN IEC 61851-1:2019, EN IEC 61851-21-2:2021
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
Product Name : AC Charging Station
Report No and Date : TLGD2208184058 6, TEGD2208184058 7
Product Brand/Model/Type : mindian // MDAC-3.5kW, MDAC-7kW, MDAC-11kW, MDAC-14kW, MDAC-22kW, MDAC-44kW, MDAC-88kW

Certificate Number : M.2022.206.C76881
Initial Assessment Date : 24.08.2022
Registration Date : 25.08.2022
Reissue Date/No : -
Expiry Date : 24.08.2027
UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The owner named then must keep a copy of the certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be notified in case of any changes on the product(s).
Address: Mutlukent Mahallesi 2073 Sokak (Eski 15 Sokak) No:10 Çankaya – Ankara – TÜRKEY
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
E-mail: info@udemtrkd.com.tr www.udem.com.tr

ECOFRONTS Wallbox

Ecofronts Wallbox
PM Series (metal enclosure)

- Robust design for outdoor use
- Sleek, appealing appearance
- Easy to use interface
- Aluminum enclosure, built to last
- Excellent waterproof performance
- Safe and durable

Specifications

Wallbox Model	PM 132EN	PM 316EN	PM 332EN
Rated Power	7 kW	11 kW	22 kW
Rated Current	1P 32 A	3P 16 A	3P 32 A
Working Voltage	AC 230V	AC 400V	AC 400V
Electric Protection	Earth leakage, short circuit, overload, over voltage, undervoltage, lightning, over temperature	Earth leakage, short circuit, overload, over voltage, undervoltage, lightning, over temperature	Earth leakage, short circuit, overload, over voltage, undervoltage, lightning, over temperature
Operating Temperature	-30 °C to +50 °C	-30 °C to +50 °C	-30 °C to +50 °C
Operating Humidity	5 ~ 95%	5 ~ 95%	5 ~ 95%
Protection Degree	IP65	IP65	IP65
Cable Length	5 M	5 M	5 M
Dimensions	H 355mm x W 250mm x D 93mm	H 355mm x W 250mm x D 93mm	H 355mm x W 250mm x D 93mm
Unit Weight	8.95 Kg	9.95 Kg	9.95 Kg
Enclosure	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Installation	Wall or pedestal	Wall or pedestal	Wall or pedestal
Optional features	Blue tooth, Wi-Fi, Ethernet, 4G, OCPP1.6	Blue tooth, Wi-Fi, Ethernet, 4G, OCPP1.6	Blue tooth, Wi-Fi, Ethernet, 4G, OCPP1.6
In Compliance with	EN IEC 61851-1:2019, EN IEC 61851-21-2:2021 EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 EN IEC 61000-3-2:2019 + A1:2021 EN 61000-3-3:2013 + A1: 2019 +A2:2021		
Certificates	**CE**		

ECOFRONTS Wallbox

Ecofronts Wallbox
PM Series (Plastic Enclosure)

- Simple and practical appearance
- User-friendly design
- Easy to install
- Safe and durable
- Better affordability

Specifications

Wallbox Model	PM 3-7KWP	PM 3-7KWS
Rated Power	7 kW	7 kW
Rated Current	1P 32 A	1P 32 A
Working Voltage	AC 230V	AC 230V
Electric Protection	Earth leakage, short circuit, overload, over voltage, undervoltage, lightning, over temperature	Earth leakage, short circuit, overload, over voltage, undervoltage, lightning, over temperature
Operating Temperature	-20 °C to +50 °C	-20 °C to +50 °C
Operating Humidity	5 ~ 95%	5 ~ 95%
Noise control	≦ 60dB	≦60dB
Protection Degree	IP54	IP54
Display	4.3 inch LED	N/A
Communication Protocals	Ethernet, 4G	N/A
Charging method	Swipe card or scan code	Plug in or swipe card to charge
Payment method	Credit card, scan code	N/A
Cable Length	5 M	5 M
Dimensions	H 390mm x W 260mm x D 125mm	H 390mm x W 260mm x D 125mm
Unit Weight	5.55 Kg	5.55 Kg
Enclosure	Plastic	Plastic
Installation	Wall or pedestal	Wall or pedestal
Optional features	Blue tooth, Wi-Fi	Blue tooth, Wi-Fi
In Compliance with	EN IEC 61851-1:2019, EN IEC 61851-21-2:2021 EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 EN IEC 61000-3-2:2019 + A1:2021 EN 61000-3-3:2013 + A1: 2019 +A2:2021	
Certificates	**CE**	

ECOFRONTS Wallbox

Ecofronts Wallbox PN Series

- Trendy industrial design
- Operate with ease and peace of mind
- Suitable for indoor and outdoor installation
- Secure and reliable

Specifications

Wallbox Model	PN-232-TC2	PN-416-TC2	PN-432-TC2
Rated Power	7.2 kW	11 kW	22 kW
Rated Current	1P 32 A	3P 16 A	3P 32 A
Working Voltage	AC 230V	AC 400V	AC 400V
Electric Protection	Earth leakage, short circuit, overload, over voltage, undervoltage	Earth leakage, short circuit, overload, over voltage, undervoltage	Earth leakage, short circuit, overload, over voltage, undervoltage
Communication Protocals	Wi-Fi via TUYA APP, Ethernet	Wi-Fi via TUYA APP, Ethernet	Wi-Fi via TUYA APP, Ethernet
Operating Temperature	-25 °C to +45 °C	-25 °C to +45 °C	-25 °C to +45 °C
Operating Humidity	5 ~ 95%	5 ~ 95%	5 ~ 95%
Protection Degree	IP55, IK08	IP55, IK08	IP55, IK08
Cable Length	5 M	5 M	5 M
Dimensions	H 440mm x W 290mm x D 134mm	H 440mm x W 290mm x D 134mm	H 440mm x W 290mm x D 134mm
Unit Weight	5.10 Kg	5.14 Kg	6.44 Kg
Enclosure	Plastic	Plastic	Plastic
Installation	Wall mounting	Wall mounting	Wall mounting
Optional features	DLB, RFID Reader, OCPP 1.6, LCD screen	DLB, RFID Reader, OCPP 1.6, LCD screen	DLB, RFID Reader, OCPP 1.6, LCD screen
In Compliance with	EN IEC 61851-1:2019 EN IEC 61008-1:2010 EN IEC 62955:2018 EN 62196-2:2017		
Certificates	**CE, CB, RoHS**		

ECOFRONTS Wallbox

Ecofronts Wallbox
PN Series (socket version)

- Trendy industrial design
- Operate with ease and peace of mind
- Suitable for indoor and outdoor installation
- Secure and reliable

Specifications

Wallbox Model	PN-2322-FC	PN-4162-FC	PN-4322-FC
Rated Power	7.2 kW	11 kW	22 kW
Rated Current	1P 32 A	3P 16 A	3P 32 A
Working Voltage	AC 230V	AC 400V	AC 400V
Electric Protection	Earth leakage, short circuit, overload, over voltage, undervoltage	Earth leakage, short circuit, overload, over voltage, undervoltage	Earth leakage, short circuit, overload, over voltage, undervoltage
Communication Protocals	Wi-Fi via TUYA APP, Ethernet	Wi-Fi via TUYA APP, Ethernet	Wi-Fi via TUYA APP, Ethernet
Operating Temperature	-25 °C to +45 °C	-25 °C to +45 °C	-25 °C to +45 °C
Operating Humidity	5 ~ 95%	5 ~ 95%	5 ~ 95%
Protection Degree	IP55, IK08	IP55, IK08	IP55, IK08
Dimensions	H 440mm x W 290mm x D 134mm	H 440mm x W 290mm x D 134mm	H 440mm x W 290mm x D 134mm
Unit Weight	3.70 Kg	3.80 Kg	3.92 Kg
Enclosure	Plastic	Plastic	Plastic
Installation	Wall mounting	Wall mounting	Wall mounting
Optional features	DLB, RFID Reader, OCPP 1.6, LCD screen	DLB, RFID Reader, OCPP 1.6, LCD screen	DLB, RFID Reader, OCPP 1.6, LCD screen
In Compliance with	EN IEC 61851-1:2019 EN IEC 61008-1:2010 EN IEC 62955:2018 EN 62196-2:2017		
Certificates	**CE, CB, RoHS**		

ECOFRONTS Portable

Ecofronts Portable PM Series

- Compact, streamlined design
- Simple and practical appearance
- Excellent waterproof performance
- Easy to connect
- Safe and durable

Specifications

Portable Model	PM-116ENF	PM-116ENF-P	PM-132ENF	PM-132ENF-P
Rated Power	3.5 kW	3.5 kW	7.0kW	7.0kW
Rated Current	1P 16 A	1P 16 A	1P 32 A	1P 32 A
Working Voltage	AC 230V	AC 230V	AC 230V	AC 230V
Earth Leakage Protection	30mA type A RCD + 6mA DC	30mA type A RCD + 6mA DC	30mA type A RCD + 6mA DC	30mA type A RCD + 6mA DC
LED Display	no LED	2.8 inch LED	no LED	2.8 inch LED
LED Indicator Light	Yes	Yes	Yes	Yes
Intelligent Power Adjustment	Yes	Yes	Yes	Yes
Operating Temperature	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C	-25 °C to +50 °C
Operating Humidity	5 ~ 95%	5 ~ 95%	5 ~ 95%	5 ~ 95%
Protection Degree	IP65	IP65	IP65	IP65
Cable Length	5 M	5 M	5 M	5 M
Dimensions	H 200mm x W 90mm x D 55mm	H 200mm x W 90mm x D 55mm	H 230mm x W 110mm x D 60mm	H 230mm x W 110mm x D 60mm
Unit Weight	2.45 Kg	2.45 Kg	3.5 Kg	3.5 Kg
Input Plug Type	All types	All types	All types	All types
In Compliance with	EN IEC 61851-1:2019, EN IEC 61851-21-2:2021 EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 EN IEC 61000-3-2:2019 + A1:2021 EN 61000-3-3:2013 + A1: 2019 +A2:2021			
Certificates	CE			

ECOFRONTS Portable

Ecofronts Portable
PN Series

- Compact, streamlined design
- Simple and practical appearance
- Excellent waterproof performance
- Easy to connect
- Safe and durable

Specifications

Portable Model	PN-2162L	PN-2322L
Rated Power	3.6 kW	7.2 kW
Rated Current	8A ~ 16 A, adjustable	8A ~ 30 A, adjustable
Earth Leakage Protection	30mA type A RCD + 6mA DC	30mA type A RCD + 6mA DC
Display	0.96 inch OLED	0.96 inch OLED
Operating Temperature	-25 °C to +45 °C	-25 °C to +45 °C
Operating Humidity	5 ~ 95%	5 ~ 95%
Protection Degree	IP55, IK08	IP55, IK08
Calble Length	5 M	5 M
Dimensions	H 200mm x W 100mm x D 55 mm	H 200mm x W 100mm x D 55 mm
Unit Weight	2.72 Kg	3.66 Kg
Input Plug Type	All types	All types
In Compliance with	EN/IEC 62752:2016 / A1: 2020 EN/IEC 62955: 2018 EN/IEC 62196-1:2014 EN/IEC 62196-2:2016	
Certificates	**CE, CB, Rohs, REACH**	

ECOFRONTS Charging Cables

Having a backup cable during your travel ensures greater convenience and better mobility. Our Ecofronts charging cables are fully tested and certified to meet your requirements.

Specifications

Charging Cable Model	EVC-M2F2-116	EVC-M2F2-132	EVC-M2F2-316	EVC-M2F2-332
Charging Power Accepted	3.7 kW	7.2 kW	11 kW	22 kW
Max AC Current	16 A	32 A	16 A	32 A
No. of Phases	1P+N+E	1P+N+E	3P+N+E	3P+N+E
Wire	3*2.5mm² + 2*0.5mm²	3*6mm² + 2*0.5mm²	5*2.5mm² + 2*0.5mm²	5*6mm² + 2*0.5mm²
Operating Temperature	-25 °C to +45 °C	-25 °C to +45 °C	-25 °C to +45 °C	-25 °C to +45 °C
Operating Humidity	5 ~ 95%	5 ~ 95%	5 ~ 95%	5 ~ 95%
Protection Degree	IP54	IP54	IP54	IP54
Cable Type	Straight / Spiral	Straight / Spiral	Straight / Spiral	Straight / Spiral
Color	Grey / Green	Grey / Green	Grey / Green	Grey / Green
Length	5.0M / 7.5M	5.0M / 7.5M	5.0M / 7.5M	5.0M / 7.5M
Unit Weight	2.77 Kg	2.90 Kg	2.72 Kg	3.74 Kg
Enclosure	PC+PBT for the plug, BASF TPU for the cable			
In Compliance with	EN/IEC 61851-2:2019 EN/IEC 61008-1:2010 EN/IEC 62955:2018 EN/IEC 62196-2:2017			
Certificates	**CE, CB, Rohs, UKCA**			

Adapters

Our charging adapters ensure the efficient connections between your vehicle and the charging stations.

Specifications

Adapter Type	TYPE2-TESLA	TYPE2-J1772	CCS2-TESLA
Image			
Color	Black	Black	Black
Connector	Type 2 (AC)	Type 2 (AC)	CCS2 Type 2 (AC+DC)
Rated Power	Up to 8 KW	Up to 7 KW	Up to 200 KW
Current	Up to 32 A	Up to 32 A	Up to 200 A
Operating Voltage	110 V ~ 250 V AC	250 V AC	300 V ~ 1000 V DC
Insulation Resistance	>1000 mΩ	>1000 mΩ	>1000 mΩ
Contact Resistance	<0.5 mΩ	<0.5 mΩ	<0.5 mΩ
Flame Retardant Grade	UL 94-V0	UL 94-V0	UL 94-V0
Operating Temperature	-35°C ~ +50°C	-35°C ~ +50°C	-35°C ~ +50°C
Storage Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Protection Class	IP54	IP54	IP54
Temperature Rise Protection Feature	Dual temperature kill switch stops charging when adapter reaches 90°C	Dual temperature kill switch stops charging when adapter reaches 90°C	Dual temperature kill switch stops charging when adapter reaches 90°C
Pin Material	Silver plated copper alloy	Silver plated copper alloy	Silver plated copper alloy
Housing Material	Plastic (PC+ABS)	Plastic (PC+ABS)	Plastic (PC+ABS)
Service Life	>10000 times	>10000 times	>10000 times
Certificate	**CE**	**CE**	**CE**

Adapters

Specifications

Adapter Type	CCS2-TYPE2	CCS2-CCS1
Image		
Color	Black	Black
Connector	CCS2 (DC)	CCS1 (DC)
Rated Power	Up to 86 KW	Up to 200 KW
Current	Up to 210 A	Up to 200 A
Operating Voltage	410 V DC	1000 V DC
Insulation Resistance	>1000 mΩ	>1000 mΩ
Contact Resistance	<0.5 mΩ	<0.5 mΩ
Flame Retardant Grade	UL 94-V0	UL 94-V0
Operating Temperature	-35°C ~ +50°C	-35°C ~ +50°C
Storage Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Protection Class	IP54	IP54
Temperature Rise Protection Feature	Dual temperature kill switch stops charging when adapter reaches 90°C	Dual temperature kill switch stops charging when adapter reaches 90°C
Pin Material	Silver plated copper alloy	Silver plated copper alloy
Housing Material	Plastic (PC+ABS)	Plastic
Service Life	>10000 times	>10000 times
Certificate	**CE**	**CE, FCC**

We are the experts in the OEM/ODM services of smart EV charging solutions. Drop us a line and we will be happy to help you find a solution.

Contact Us

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