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# ANXIN ANXIN ANXIN ANXIN ANXIN **CE-LVD** TEST REPORT

For

**EV Charging Station** 

Models No.:	WPro-32P, WPro-32-3P, WPro-16-3P, WPro-40P, WPro-50P, WPro-32S, WPro-32-3S, WPro-16-3S
Prepared for :	Shanghai Zencar Industry Co., Ltd
PLA.	Room 103 Building 1 No 690 Linheng Road Pudong New Area Shanghai China
	All and a pro-
Manufacturer :	Shanghai Zencar Industry Co.,Ltd
	Room 103 Building 1 No 690 Linheng Road Pudong New Area Shanghai China
Prepared By :	Shenzhen An-Xin Testing Service Co., Ltd. Testing
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ANXIN AXJC20230509000266S Report Number : Issued Date : May. 16, 2023 May. 16, 2023 Date of Report :

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ANXIN ANXIN ANXIN ANXIN ANXIN Shenzhen An-Xin Testing Service Co., Ltd. Room 402-405, Floor 4th, Building C, Yuxing Technology Industrial Park, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China 🖀 86-0755-23009643 🛛 📇 86-0755-23009643 🛛 💽 http://www.anxinlab.com/



Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC20230509000266S

### TEST REPORT EN IEC 61851-1:2019 EN 61851-22:2002

### Electric vehicle conductive charging system - Part 1: General requirements Part 22: AC electric vehicle charging station

Report Number	AXJC20230509000266S
Date of issue	May. 16, 2023
Testing Laboratory:	Shenzhen An-Xin Testing Service Co., Ltd.
Address :	Room 402-405, Floor 4th, Building C, Yuxing Technology Industrial Park, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name :	Shanghai Zencar Industry Co.,Ltd
Address :	Room 103 Building 1 No 690 Linheng Road Pudong New Area Shanghai China
Test specification: Standard :	EN IEC 61851-1:2019 EN 61851-22:2002
Test procedure:	LVD-CE
Non-standard test method	N/A provide another another another
Test Report Form No	N/A
Test Report Form(s) Originator:	N/A
Master TRF	N/A
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	text.
Test item description:	All and
	All and
Trade Mark:	All
Trade Mark:	EV Charging Station
Test item description:         Trade Mark:         Manufacturer         Address:         Models/Type reference:	EV Charging Station Constraints Shanghai Zencar Industry Co., Ltd Room 103 Building 1 No 690 Linheng Road Pudong New Area
Trade Mark: Manufacturer Address	EV Charging Station Construction Shanghai Zencar Industry Co., Ltd Room 103 Building 1 No 690 Linheng Road Pudong New Area Shanghai China WPro-32P, WPro-32-3P, WPro-16-3P, WPro-40P, WPro-50P,

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Possible	test case verdic	ts :	PLA	ANXI	axin	
test cas	e does not apply	to the test object	N(/A.)			, Play
test obje	ect does meet the	requirement	P(ass)			XIN
test obje	ect does not meel	the requirement	F(ail)	XIP .	AIXIN	-XIN
the.						AR

Name and address of the testing laboratory :

Shenzhen An-Xin Testing Service Co., Ltd. Room 402-405,Floor 4th, Building C, Yuxing Technology Industrial Park, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

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Tested by

Jet cher Signature

<u>May. 16, 2023</u> Date

atte

Jet Chen / Engineer Name/title

Witnessed by:

Henry Lian Signature

<u>May. 16, 2023</u> Date

Henry Tian / project Engineer Name/title

Approved by :

ANXIN

NXIN



Kevin Liu / Manager Name/title <u>May. 16, 2023</u> Date

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### Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC20230509000266S

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### **GENERAL PRODUCT INFORMATION:**

### **Product Description –**

### Model Differences -

N/A

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### Additional application considerations - (Considerations used to test a component or sub-assembly) -

In the "Decision" column, P indicates that the test result meets the requirements; F means that the test result does not meet the requirements; N indicates the requirements .Not suitable for the product, or not for the test.

### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

### EV Charging Station

Model: WPro-32P Rating:Input: AC 220-240V / 380-400V, 50/60Hz, 16-50A Output: AC 220-240V / 380-400V, 50/60Hz, 16-50A



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TESTING	ANXIN A. NIXIN A	All Alk		Xin Testing Servio o.: AXJC2023050	
412	i ki	EN IEC 61851-1	ANT	NXIIS	Alter
lause	Requirement +Test		Result - Remark		Verdict
	he. Me.	ANY.	atter	Alt	- I
ite.	RATING OF THE SUPPLY A.C.	VOLTAGE			PN
AL	The rated value of the a.c. supp the charging equipment is up to	1 000 V. The	AC 220-240V / 3 50/60Hz	80-400V,	P
	equipment shall operate correct the standard nominal voltage. T value of the frequency is 50 Hz	he rated	NXIN		AIN
<i>1n</i> .			All A	A Par	, P
Mr.	GENERAL DESCRIPTION	P1-	AM	ANX III	PL
AND AND	One method for EV charging is a.c. supply networkmains to and An alternative method for charg use an off-board charger for del current. For charging in a short special charging facilities operat levels could be utilized.	on-board charger. ing an EV is to ivering direct period of time	400Va.c.(Three pl 230Va.c.(Single p		AP A
2 XIN	EV charging modes	AMA	Mode 3	ANXIN	ANXPM
	Mode 1 charging:connection of supply network (mains utilizing s socket-outlets not exceeding 16 exceeding 250 Va.c. single-phase three-phase, at the supply side, power and protective earth conductors.	standardized A and not se or 480 V a.c.	N ANXIN ANXIN		N/A
MXIN ANX ANX	Mode 2 charging:Mode 2 chargi the EV to the a.c. supply networ exceeding 32 A and not exceeding single-phase or 480 Va.c.three-p standardized single-phase or the socket-outlets, and utilizing the protective earth conductors to a control pilot function and system protection against electric shock the EV and the plug or as a part control box.The inline control bo within 0.3 m of the plug or the E plug.	k (mains not ing 250 V a.c. ohase utilizing ree-phase power and ether with a n of personnel k (RCD) between c of the in-cable x shall be located	ANXIN ANXIN ANXIN ANX ANXIN	ANXIN ANXIN IN ANXIN IN ANXIN	N/A ANDOR
	Mode 3 charging: connection of supply network(mains) utilizing		AXIN	All	Р
	EVSE where the control pilot fur control equipment in the EVSE, connected to the a.c.supplynetw	permanently	NA		A ANT
NA AN	Mode 4 charging: connection of supply network (mains) utilizing charger where the control pilot f to equipment permanently conn	the EV to the a.c. an off- board unction extends	WXIN AN AN	XIN ANX	N/A
In	to the a.c. supply.	AP'	AV.	XIC	112

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14th	EN IEC 61851-7	Shenzhen An-Xin Testing Servic Report No.: AXJC2023050	
	pSt pT ct	17	Verdiet
Clause	Requirement +Test	Result - Remark	Verdict
6.3	Types of EV connection using cables and plugs(cases A,B,and C)	KIM NYXIN I	P
6.3.1	General description	and the part	Р
KIN	The connection of EVs using cables may be carried out in one or more of three different ways:	Case"A" connection: the connection of an EV to the a.c. supply network(mains utilizing a supply cable and plug	ANDRIA
6.3.2	Cord extension set	permanently attached to the EV	Р
0.0.2	A cord extension set or second cable assembly	ater area	р Р
NA ANY	shall not be used in addition to the cable assembly for the connection of the EV to the EVSE.The vehicle manual shall clearly indicate this. A cable assembly shall be so constructed so that it cannot be used as a cord extension	ANXIN ANXIN A	15×114
AT.	set.	Part	PS
6.4	Functions provided in each mode of charging for modes 2, 3, and 4	ANXIN ANXIN	N/A
6.4.1	Modes 2, 3 and 4 functions	411 471	Р
2	These functions shall be provided by the EVSE or the EVSE and vehicle system as given below:	proto proto	P
in the	verification that the vehicle is properly connected;	with with	N/A
50.2	energization of the system;	bla.	P
114	de-energization of the system.	Mrs. Mrs.	Р
6.4.2	Optional functions for modes 2, 3, and 4	Pris Plan	Rat
Pa	selection of charging rate;	the second second	N/A
ANX	determination of ventilation requirements of the charging area;	with provide proto	Р
2	detection/adjustment of the real time available load current of the supply equipment;	ALL ALAXIN AS	P
P	retaining/releasing of the coupling;	states the	Р
atter	control of bi-directional power flow to and from the vehicle.	pri plas	Р
6.4.3	Details of functions for modes 2, 3, and 4	approx with	Р
6.4.3.1	Verification that the vehicle is properly connected	61 61	P
ATA .	The EVSE shall be able to determine that the connector is properly inserted in the vehicle inlet and properly connected to the EVSE.	WINA MIN ANY	P
6.4.3.2	Continuous protective earth continuity checking	Part Broth	P
and a	Equipment earth continuity between the EVSE and the vehicle shall be continuously verified	Million Million	Р

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	proper property property	Shenzhen An-Xin Testing S Report No.: AXJC202	
12th	EN IEC 61851-		30202002000
Clause	Requirement +Test	Result - Remark	Verdict
st	tan Mire M	be by	F 3
6.5	Serial data communication	and all	P
P	The applicability of serial data communication for all charging modes is specified as follows.Serial data communication is optional for mode 1,2 and 3	mode 3	N/A
7	Protection against electric shock	by bre	N/A
7.1	General requirements	- HIM - H	N/A
atte	Hazardous live parts shall not be accessible.	Pur Pur	N/A
p.s	Exposed conductive parts shall not become a hazardous live part under normal conditions	a hixing	astate P
A PLA	(operation as intended use and in the absence of a fault), and under single-fault conditions.	With MIN M	411
2	Protection against electric shock is provided by the application of appropriate measures for protection both in normal service and in case of a	with prover with	P
	fault.	PLAN PLAN	anton
7.2	Protection against direct contact	4112	N/A
7.2.1	General	AND AN	N/A
Pro	Protection against direct contact shall consist of one or more provisions that under norma	MAL WALL	PA
	conditions prevent contact with hazardous-live parts.For systems or equipments on board the	XIN PI VIN	Pite
4554	vehicle, the requirements are defined in ISO6469-3.	Plan Plan.	ANXIN
7.2.2	Accessibility of live parts	the star	P
ANXIN	When connected to the supply network, the EvsE shall not have any accessible hazardous live part, even after removal of parts that can be removed without a tool.	A ANXIN AIL	NUTA RUT
7.2.3	Stored energy - discharge of capacitors	411 Mar	Р
7.2.3.1	Disconnection of EV	Plan.	P
40	One second after having disconnected the EV from the supply(mains, the voltage between	Max.4.99V Max.0.169J	N/A
	accessible conductive parts or any accessible conductive part and earth shall be less than or	WIN P.	they blan
	equal to 424 V peak, or 60 V d.c., and the stored energy available shall be less than 20 J see IEC 60950). If the voltage is greater than 42.4V	AN AN AN	p3
	peak(30Vrms or 60Vd.c. or the energy is 20 J or more, a warning label shall be	and property	Protection
1 100	attached in an appropriate position	Mitter May	(mp)
7.2.3.2	Disconnection of EVSE	po -	P

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TESTING	ANXIN ANXIN MAXIN	Shenzhen An-Xin Testing Ser	
4142	EN IEC 61851-7	Report No.: AXJC20230	509000266S
Clause	Requirement +Test	Result - Remark	Verdict
	Requirement + rest	Result - Remain	Verdier
Pitt	Conditions for the disconnections of the EVSE from the supply mains are identical to those required for the disconnection of the EV as indicated in 7.2.3.1.	CIM ANXIN P	P
7.3	Fault protection	parts sparse	Р
	Protection against indirect contact shall consist of one or more recognized provision(s).	supplementary or reinforced insulation;	P
7.4	Supplementary measures	P but but	Р
	To avoid indirect contact in case of failure of the basic and/or fault protection or carelessness	Type B RCD	N/A
	by users, additional protection against electric shock shall be required. An RCD ( $1\Delta n \leq 30$ mA) shall be provided as a part	axing prexing	AUXIN PS
	of the EV conductive supply equipment for earthed systems. The RCD shall have a performance at least equal to Type A and be in conformity with standard IEC60364-4-41	ANXIN ANXIN	A PRAXIN
7.5	Provision for mode 4 EVSE	been broke	P
Pre	Specific measures for mode 4 EVSEs are treated in EC61581-23.	This is not a DC charging station.	N/A
8 🔊	Connection between the power supply and the E	V 112 M	Р
8.1	This clause provides a description of the physical conductive electrical interface requirements between the vehicle and the EVSE.	start Alle Aller	N/A
8.2	Contact sequencing	bion provin	Part
bur	For safety reasons, the contact sequence during the connection process shall be such that	anaxina	134
	the earth connection is made first and the pilot connection is made last. The order of	KIN KIN PAR	P
	connection of the other contacts is not specified. During disconnection the pilot connection shall be broken first and the earth connection shall	with proving	property and
	be broken last.	par plan	RUX
8.3	Functional description of a standard interface	MA ATT	Р
	A standard earthing type plug. socket-outlet and vehicle coupler may be used for modes 1.2 and 3, provided the pilot function is included for	IN AIR ANY	P
	modes 2 and 3.	ASA AS	275
3.4	Functional description of a basic interface	Mar Marca	Р
	Standard physical configuration for single phase	Star Bart	Р

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TESTING	ANXIN ANXIN ANXIN P	Shenzhen An-Xin Testing Servic Report No.: AXJC20230509	e Co., Ltd
athe	EN IEC 61851-1		90002003
Clause	Requirement +Test	Result - Remark	Verdict
Files	the the	Les Provision	
	Electrical ratings comply with Table 1	The connector is AC 230V, 32A for single phase or AC 480V, 32A for three phase	P
the .	Inlet intermateable with the single phase and three phase connector or both. Not mateable with the universal type	MIN MIXING MIXING	P
3.5	Functional description of a universal interface	Pur Pipu	N/A
Pr.	The universal vehicle inlet shall be intermateable with either the high power a.c. connector or the high power d.c.connector.	white anythe anythe	N/A
	The basic vehicle connector may be intermateable with the universal vehicle inlet if the two are desianed to prevent mismatching and desianed to befail-safe.	AVAN ANXIN AVAN	Р
stre	Specific requirements for vehicle inlet, connector	or, plug and socket-outlet	P
9.1 AND <sup>AN</sup>	The requirements for accessories of the standard interface are specified in IEC 60309-1 IEC 60309-2 (industrial type) and IEC 60884-1 (domestic type)(as examples A1 and B1 in 6.3).	Case"A"	Р
9.2	Operating temperature	AN AN	Р
CITA PS	Operating temperature is defined in accordance with IEC60309-1, 1EC60309-2 and IEC 60884-1 (as examples A1 and B1 in 6.3or IEC 62196-1 (cases A2 and B2 in 6.3)	ANXIN ANXIN	P
9.3	Service life of inlet/connector and plug/socket-outlet	AND ANXING	P
	The requirements for accessories of the standard interface are specified in IEC 60309-1 IEC 60309-2 (industrial type) and IEC 60884-1 (domestic type(as examples A1 and B1 in 6.3).	KIN ANXIN ANXIN	Р
9.4	Breaking capacity	Plan of	N/A
4112	The requirement shall be in accordance with IEC62196-1.	anaxing waxing	N/A
9.5	IP degrees	IP65	Р
10	Charging cable assembly requirements	aporto atre	Р
10.1	Electrical rating	(A) (A)	P
102 25	The rated voltaae of each conductor shall correspond to the rated voltage of the connecting means. The rated current shall correspond to the rating of the line circuit breaker.	WXIN ANXIN ANXIN ANXIN	P
10.2	Electrical characteristics	as por	Р

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4m	GANXIN ANXIN ANXIN	Shenzhen An-Xin Testing Servi Report No.: AXJC2023050	
Sat.	EN IEC 61851-1	Pa	pSal
Clause	Requirement +Test	Result - Remark	Verdict
12	fair altre	All Alla	23
	The cable may be fitted with an earth-connected metal shielding. The cable insulation shall be wear resistant and maintain flexibility over the full	CITY ALAXING AN	P
P	temperature range.	All	here
10.3	Dielectric withstand characteristics	by bla	P
10	Dielectric withstand characteristics shall be as indicated for the EVSE in 11.4.	anating mating	Р
10.4	Mechanical characteristics	A internet	Р
	The mechanical characteristics of the cable should be equivalent or superior to those of	Asta materia	Р
NA Pr	IEC 60245-6 cable. as well as for fire resistancechemical withstand.UV resistance	axing maxing	414
10.5	Functional characteristics	P	Р
	The maximum cord length may be specified by some national codes	ANXIN ANXIN	PAT
11	EVSE requirements	4112 112	Р
11.1	General test requirements	Ala ANNI	P
	<ul> <li>The connecting point of the EV supply equipment shall be protected by an RCD having a rated residual operating current not exceeding 30 mA;</li> <li>RCD(s) protecting connecting points shall be at least type A;</li> </ul>	ANXIN ANXIN AN	IN P
	<ul> <li>RCDs shall comply with one of the following standards: IEC 61 008-1, IEC 61 009-1, IEC 60947-2 and IEC 62423;</li> <li>RCDs shall disconnect all live conductors.</li> </ul>	A PUXING PUXING	A Prot
PIN	Vehicle adaptors shall not be used to connect a vehicle connector to a vehicle inlet.	xin pin and	N/A
	Adaptors between the EV socket-outlet and the EV plug shall only be used if specifically	A ANY ANY	stres
	designated and approved by the vehicle manufacturer or by the EV supply equipment	ANXIN ANXIN	antin
	manufacturer and in accordance with national requirements, if any (see 1 6.2).	ANXIN WIXIN	
11	Cable assembly requirements	p) p)	P
11.1	General test requirements	and the second	P
11 .2	Classification	Phil Phil	Р
	EVSE shall be classified according to exposure to environmental conditions: outdoor use; indoor use.	ANXING PROXING	PA
Alt		PLa PLAN	st

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TESTING	ANXIN ANXIN ANXIN	Shenzhen An-Xin Testing Servio Report No.: AXJC2023050	
1stin	EN IEC 61851-1		P222
Clause	Requirement +Test	Result - Remark	Verdict
11.3	IP degrees for basic and universalinterfaces	ing in pu	Р
11.0	The minimum IP degrees for ingress of object and liquids shall be:	IP65	P
XIN XIN	Indoor use: vehicle inlet mated with connector:IP21 - plug mated with socket outlet: IP21, connector for case C when not matedindoor:IP21.	ANXIN ANXIN ANXIN	P
Plan	Outdoor use: - vehicle inlet mated with connector:IP44 - plug mated with socket outlet:IP44	Hard Purking Prek	Р
11.4	Dielectric withstand characteristics	atter water	P
ANXIN	<ul> <li>11.4.1Dielectric withstand voltage</li> <li>The dielectric withstand voltage at power frequency(50 Hz or 60 Hz) shall be applied for</li> <li>1 min as follows:</li> <li>a)Fora classIchargers U+1 200 Vr.m.s. in common mode(all circuits in relation to the exposed conductive parts) and differential mode (between each electrically independent circuit and all other exposed conductive parts or circuits) as specified in 5.3.323 ofIEC 60664-1.</li> </ul>	ANDON ANDON ANDON	P IM P
11.5	Insulation resistance	Alter Sta	P
	The insulation resistance with a 500 V d.c. voltage applied between all inputs/outputs connected together (power source included and the accessible parts shall be for a classs I station: R>1MΩ; -for a class II station: R>7MΩ	R>1MΩ	P
11.6	Clearances and creepage distances	pro pro	P
	Equipment when mounted in its enclosure shall be designed to operate in an external environment with a minimum pollution degree 3 and overvoltage category III.	ANXIN ANXIN A	N/A
ALL ALLAND	Equipment intended for indoor use only shall be designed to operate in an environment with a minimum pollution degree 2 and overvoltage categoryll.	pollution degree 2	P
11.7	Leakage-touch current	a stille	P
UNA PLA	Between any network poles and the accessible metal parts connected with each other and a metal foil covering insulated external parts CLass I:3.5mA,Class II 0.25mA	NXIN PROXING ANY	P
11.8	Environmental tests	All the	N/A

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		EN IEC 618			266S
Clause	Requirement +Test	26° AND	Result - Remark	Ve	rdict
Party Pr	The electric vehicle char designed to operate wit range -25° C to +40° ( Cto+40° Cfor indoor.		NYNN ANXIN	KIN ANEXIN	N/A
XII-	The ambient air temper +40° C and its average 24 hours does not exce	e over a period of	ANXIN AN	AN MIXIN	N/A
Plan Plan		h a relative humidity rate One of the two types of	ANA ANALIN	PRAYER	N/A

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### PURKIN Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC20230509000266S

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Clause	Requirement +Test	Result - Remark	Verdict
and and	Mary Mary	bur Bist.	05
4	General requirements		P
IN AIL	The connection of electric vehicles can be made by one or more of the methods described in part 1. The a.c. electric vehicle charging station may have one or more socket-outlets/vehicle connectors.	ANXIN ANXIN ANXIN AT	ANY P
Pres	The a.c. electric vehicle charging station shall be connected to the electric vehicle so that in normal conditions of use the equipment operates to reduce the risk of fire, electric shock or injury to persons, either indoors or outdoors.	XIN ANXIN ANX	P
ANAXIA	In general, this is achieved by fulfilling the relevant requirements specified in this standard and compliance is checked by carrying out all relevant tests. General requirements for the a.c. electric vehicle charging station can also be found in IEC 60439-1.	ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN	PAR
5 1	Standard conditions for operation in service and	d for installation	Р
MXIN	The rated value of the a.c. supply voltage is up to 690 V. The equipment shall operate correctly within $\pm 10$ % of the standard nominal voltage (see IEC 60038). The rated value of the frequency is 50 Hz $\pm$ 1 % or 60 Hz $\pm$ 1 %.	ANXIN ANXIN ANXIN	P
ban	The ambient temperature range during charging may be between $-30$ ° C and +50 ° C and at a relative humidity of between 5 % and 95 %.	-25° C to 45° C	P
6	Rating of the a.c. input and output	bra, broyse	ANP
AIK	The input voltage and current rating is according to IEC 60038.	ANXIN ANXIN	Р

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### Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC20230509000266S

Alla	EN 61851-22	Report No.: AXJC2023050	
Clause	Requirement +Test	Result - Remark	Verdict
1st	Mr. Mr.	and by blan	pS
IN PIL	Output voltage and current rating shall not exceed the values         Output option       AC output         A       Single-phase, 230 V, 32 A         B       Single/three-phase, 230/400 V, 32 A         C       Three-phase, 500 V, 250 A	Single-phase/three phase, 230V/400V, 32A	MYP <sup>M</sup>
	General test requirements	1 111	Р
7.1	All tests in this standard are type tests.	ANA ANA	P
7.2	Unless otherwise specified, type tests shall be	King with	412
KIN	carried out on a single specimen as delivered and configured in accordance with the manufacturer's instructions.	ANXIN ANXIN AT	P
7.3	The tests in 11 .3 may be conducted on separate samples at the discretion of the manufacturer. Unless otherwise specified, all other tests shall be carried out in the order of the clauses and subclauses in this part.	IN ANXIN ANXIN ANXIN ANXIN	N/A
7.4	The tests shall be carried out with the specimen, or any movable part of it, placed in the most unfavourable position which may occur in normal use.	ANOXIN ANOXIN I	N/A
3	Functional and constructional requirements	anathin with	P
3.1	For mode 3 charging, the a.c. electric vehicle charging station provides part of the control functions listed in 6.4 of part 1 of this standard.	KIM ANXIN' AT	Р
3.2	Emergency service	PLAN PLAN	P
PLAXIN	If required by national rules, an emergency disconnection device shall be installed to isolate the a.c. supply network (mains) from the a.c.	IN ANXIN ANXIN ANXIN	P3
	electric vehicle charging station in case of risk of electric shock, fire or explosion. The disconnection device shall be provided with a means to prevent accidental operation.	NYXIN ANY ANYXIN ANYXIN	P

### Shenzhen An-Xin Testing Service Co., Ltd.



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ESTING	PLAN BURY PLAXING	Report No.: AXJC202	.305090002665
71	EN 61851-2	-1102	par
lause	Requirement +Test	Result - Remark	Verdict
bla.	ALAT ANXING	4112 4114	Por
.3	Permissible surface temperature	PLAN	P
	The maximum permissible surface temperature of parts of the a.c. electric vehicle charging station which are hand grasped, at the maximum rated current and at an ambient temperature of 40 ° C shall be	1541 WA ANXIN	P
12 A	<ul> <li>50 ° C for metal parts;</li> <li>60 ° C for non-metallic parts.</li> </ul>	AND ANYTH AT	State P Bast
ANA	For parts which may be touched but not grasped maximum permissible surface temperature under the same conditions shall be - 60 ° C for metal parts; - 85 ° C for non-metallic parts. NOTE National codes may allow other temperatures.	ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN ANX	N/A
n n nxin	If required by national rules, an emergency disconnection device shall be installed to isolate the a.c. supply network (mains) from the a.c. electric vehicle charging station in case of risk of electric shock, fire or explosion. The disconnection device shall be provided with a means to prevent accidental operation.	n Andre Andre	N/A
3.3	Permissible surface temperature	Mr. Mr.	P
.4	Charging station protection degree (IP)	PLAN.	P
KINA P	The a.c. electric vehicle charging station, when energized or not, and with the socket-outlet access trap door, if any, closed, shall provide a minimum degree of protection of IP44.	IP65	M P P
8.5	Storage means for the cable assembly	6. 91.	Р

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## ANXIN Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC20230509000266S

STATE OF			1624
Clause	Requirement +Test	Result - Remark	Verdict
A	64		Sata .
ALAN P	For case C connections, a stora provided for the cable assembly connector when not in use. The vehicle charging station should to means to indicate whether or no assembly/vehicle connector has intended after disconnection from	and vehicle a.c. electric be provided with a of the cable s been stored as	AND AND PH
9	Electrical safety	ALVXIN AXIN	P
A PLA	The general requirements for ele specified in part 1 of this standar following requirements apply.		P
9.1	Protection against indirect conta	act part and a state	N/A
AMA A	The additional protection agains required by 7.4.1 of part 1 of this shall not be automatically reset. be easily accessible to the user. reset of optional additional prote specified in 7.4.2 of part 1, shall national regulations.	s standard Manual reset shall Automatic ection devices, as	N/A
9.2	Earthing electrode and continuit	y Alexandre a state	AN P
ANY ANY	The tests for a class I charging s electrode, where applicable, and a.c. electric vehicle charging sta carried out in accordance with th and safety requirements for eart	d earthing of the ation shall be ne national rules	ANXIN P
ANAXIN ANAXIN	All exposed conductive parts of vehicle charging station which can to the supply voltage source, unconditions, shall be connected to such a manner that they conduct properly, so as to conduct poten to the earthed point of the a.c. so (mains).	ould be connected der fault ogether in ot electricity itial fault currents	ANXIN ANXIN ANXIN PAR

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atite	EN 61851-22	Report No.: AXJC2023050	
Clause	Requirement +Test	Result - Remark	Verdict
Plan	proto nation at	4112 4114	in pi
0.3	Detection of the electrical continuity of the protective conductor	with press with press	Р
ANXIN ANXIN	For mode 3 charging, the a.c. electric vehicle charging station shall monitor the electrical continuity of the protective conductor to the electric vehicle. If the a.c. electric vehicle charging station detects a loss of electrical continuity of the protective conductor, the electrical supply circuit to the vehicle shall be opened.	ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN	P
÷	with the man	bigen by	Ster.
10	Dielectric test requirements	antin atin	Р
10.1	Dielectric withstand characteristics	ALL ALL	Р
10.1.1	Dielectric withstand voltage	protein white	Р
Plan	The dielectric withstand voltage at power frequency (50 Hz or 60 Hz) shall be applied for 1 min as follows:	in ANXIN ANX	P
10 <sup>4</sup>	<ul> <li>a) For a class I a.c supply equipment</li> <li>2 000 V r.m.s. in common and differential mode</li> </ul>	2 000 V r.m.s.	P
ANA P	<ul> <li>b) For a class II a.c supply equipment</li> <li>4 000 V r.m.s. in common mode (all circuits in relation to the exposed conductive part)</li> <li>2 000 V r.m.s. in differential mode (between each electrically independent circuit and all other exposed conductive part-oriented circuits)</li> </ul>	KIN ANXIN ANXIN AN	N/A
PURAN	<ul> <li>c) For both class I and class II a.c supply equipment</li> <li>4 000 V r.m.s. between power circuits and extra low voltage circuits</li> </ul>	ANXIN ANXIN	Part

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	sting Service Co. JC202305090002	Shenzhen An-Xin T Report No.: A>	EN 61851-22	MXIN ANXIN	ESTING
lict	Vei	Result - Remark	LIN 01031-22	Requirement +Test	ause
			14		
et st	A ARAXIMA	ANXIN ANXIN ANX ANXIN ANX	ows: cording to IEC	The dielectric withstand of the po- impulse shall be checked as follo - 6 000 V: in common mode (acc 60664-1 installation category); - 4 000 V: in differential mode (a 60664-1 installation category).	A AN
A	N	a tatsta	ANXIE	Touch current	0.2
A	SINA AN ANA	ANXIN ANXIN AN	ith the a.c. connected to a.c. lance ly voltage shall	The touch current shall be measu damp heat test (see 1 1 .1 .4), wi electric vehicle charging station of supply network (mains) in accord with 5.1 of IEC 60950. The suppl be 1 ,1 times the nominal rated v	XIN P
P221	prov	14 10	14	Environmental tests	11252
A	STON N	PLATURE	PLAN	Climatic environmental tests	1.1
A	N	WIN - M	atres	Dielectric withstand voltage	1.1.1
A	DANA N	ANXIN ANY A	its nominal wer and current.	During the following tests, the a.c charging station shall function at voltage with maximum output pow After each test, the original requir still be met.	NXIN M
- P.2	Pier	ter Mr	11d	Ambient air temperature	1.1.2
412	IN ANXIN	ANXIN ANXI		The a.c. electric vehicle charging designed to operate within the terrange $-30$ ° C to +50 ° C.	A MIL
A	NXIN N	N ANXIN P	Plan	<ul> <li>c) For both class I and class II a.</li> <li>equipment</li> <li>4 000 V r.m.s. between power</li> <li>extra low voltage circuits</li> </ul>	1.1.3
A	N	and prov	all m.	Dry heat	. 5

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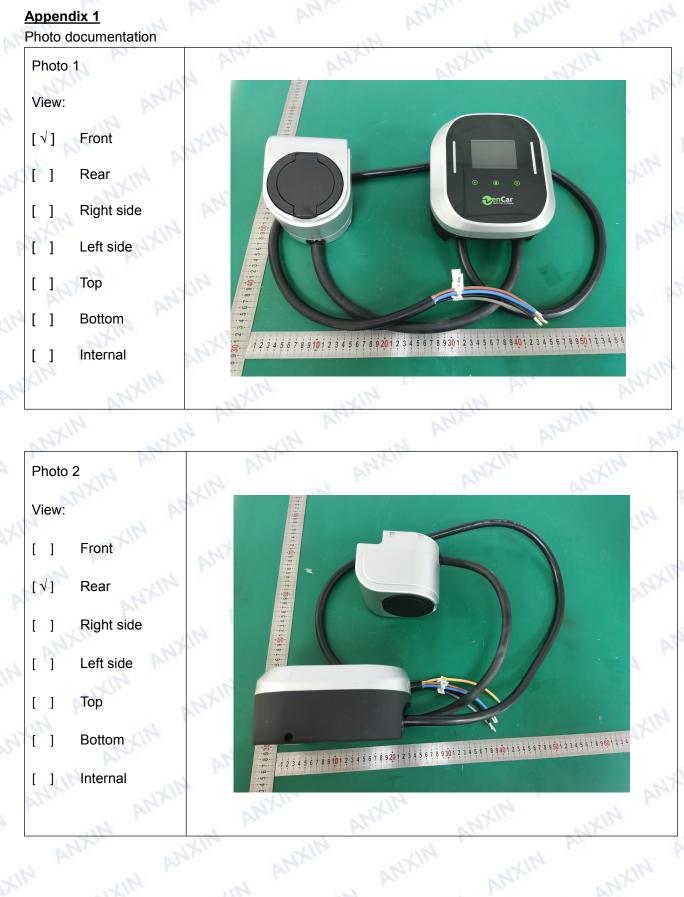
	EN 61851-22		
Clause	Requirement +Test	Result - Remark	Verdict
1 the	Muse Muser	a pro prot	23
	The test shall be in accordance with IEC 60068-2-2 Bc or Bd test (dry heat) for a test specimen dissipating energy with slow or rapid change of temperature.	ANXIN ANXIN AN	N/A
1.2	Mechanical environmental tests	4112 4122	Р
1.2.1	General	by by	P
, st	After the following tests, no degradation of performance is permitted.	ATTA MIXING ATTA	Р
7 100	Compliance is checked by verification after the test that	ACKIN ANYIN P	P
akina Abakin Abakin Ab	<ol> <li>the IP degree is not affected;</li> <li>the operation of the doors and locking points is not impaired;</li> <li>the electrical clearances have remained satisfactory for the duration of the tests, and</li> <li>for a charging station having a metallic enclosure, no contact between live parts and the enclosure has occurred, caused by permanent or temporary distortion.</li> </ol>	ANXIN ANXIN ANXIN ANXIN ANXIN	ANXIN CIN PAT
11.2.3	Stability	ANXIN NOXIN	P
AND	The a.c. electric vehicle charging station shall be installed as intended by the manufacturer's installation instructions. A force of 500 N shall be applied for 5 min in the horizontal direction to the top of the a.c. electric vehicle charging station in each of the four directions or in the worst possible horizontal direction. There shall be neither deterioration of the a.c. electric vehicle charging station nor deformation at its summit greater than - 50 mm during the load application;	ANXIN	

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