1.0 Reference and Address			
Report Number	250200098SHA-001	Original Issued: 10-Apr-2026	Revised: None
Standard(s)	Electric Vehicle Supply Equipment [UL 2594:2022 Ed.3] Electric Vehicle Supply Equipment [CSA C22.2#280:2022 Ed.3]		
Applicant	Star Charge (Jiangsu) Digital Technology Co., Ltd.	Manufacturer 1	**Wanbang Digital Energy Co., Ltd.**
Address	Room 406, Building 3, Linghang Mansion, High-speed Rail New Town, 3 Xiushuihe Road, Xinqiao Street, Xinbei District, Changzhou, Jiangsu	Address	No.186 Fenglin South Road, Wujin National High-Tech Industrial Development Zone, Changzhou, Jiangsu
Country	China	Country	China
Contact	Miaomiao Dong	Contact	Sarah Chen
Phone	+8618118381055	Phone	+8618005186855
FAX	NA	FAX	NA
Email	miaomiao.dong@wbstar.com	Email	zhe.chen@wbstar.com

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2.0 Product Description	
Product	JUNO AC CHARGE
Brand name	StarCharge
Description	The product covered by this report is a Level 2 AC Electric Vehicle Charging Station, with CCID20, GM/I and BI of personnel protection system, fixed in place for field wiring or fastened in place with input plug, intended for indoor and outdoor use. For the input installation, fastened models shall use with NEMA plug (for rated 40A Max), fixed models use with hardwired (for rated 50A Max). The product is intended to operate at altitudes up to 3000m.
Models	AC0120AN0600300, AC0120AN0601300, AC0096AN0600300, AC0096AN0601300
Model Similarity	All models are designed in the same electrical structure, software and critical components, except for the enclosure color and rated current which may includes cord set, output cable and the following: Model AC0120AN0600300 and AC0096AN0600300 are with Type 1 connector; Model AC0120AN0601300 and AC0096AN0601300 are with NACS connector.
Ratings	For model AC0120AN0600300 and AC0120AN0601300: INPUT 208/240VAC (L+L+PE), 60Hz, 50A@50°C OUTPUT 208/240VAC, 50A@50°C. For model AC0096AN0600300 and AC0096AN0601300: INPUT 208/240VAC (L+L+PE), 60Hz, 40A@50°C OUTPUT 208/240VAC, 40A@50°C.
Other Ratings	Ambient rating: -30°C~50°C. Enclosure rating: Type 4.

3.0 Product Photographs

Photo 1 - Front overview of AC0120AN0600300 as representative



Photo 2 - Front overview of AC0120AN0601300 as representative



3.0 Product Photographs

Photo 3 - Front overview of AC0096AN0600300 as representative

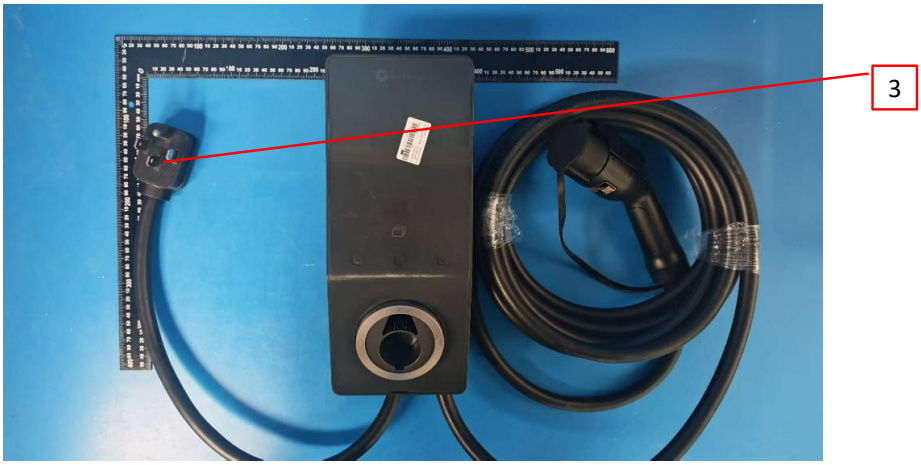


Photo 4 - Front overview of AC0096AN0601300 as representative



3.0 Product Photographs

Photo 5 - Back overview of AC0120AN0600300 as representative

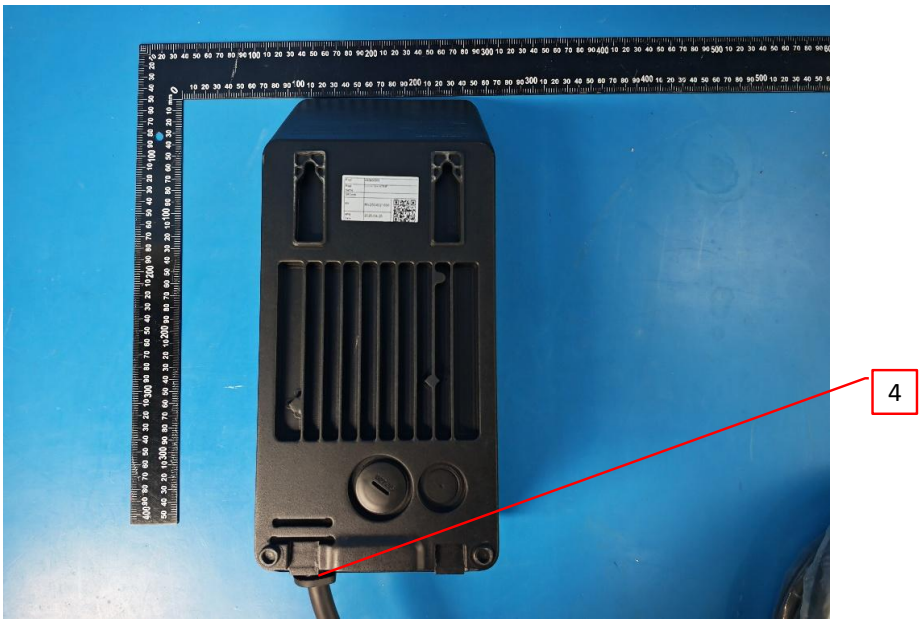
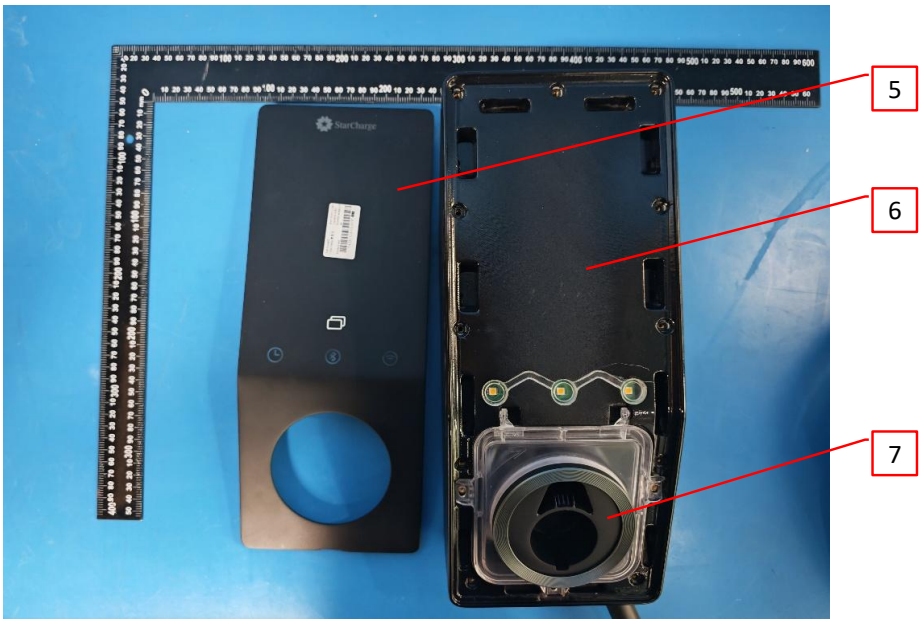
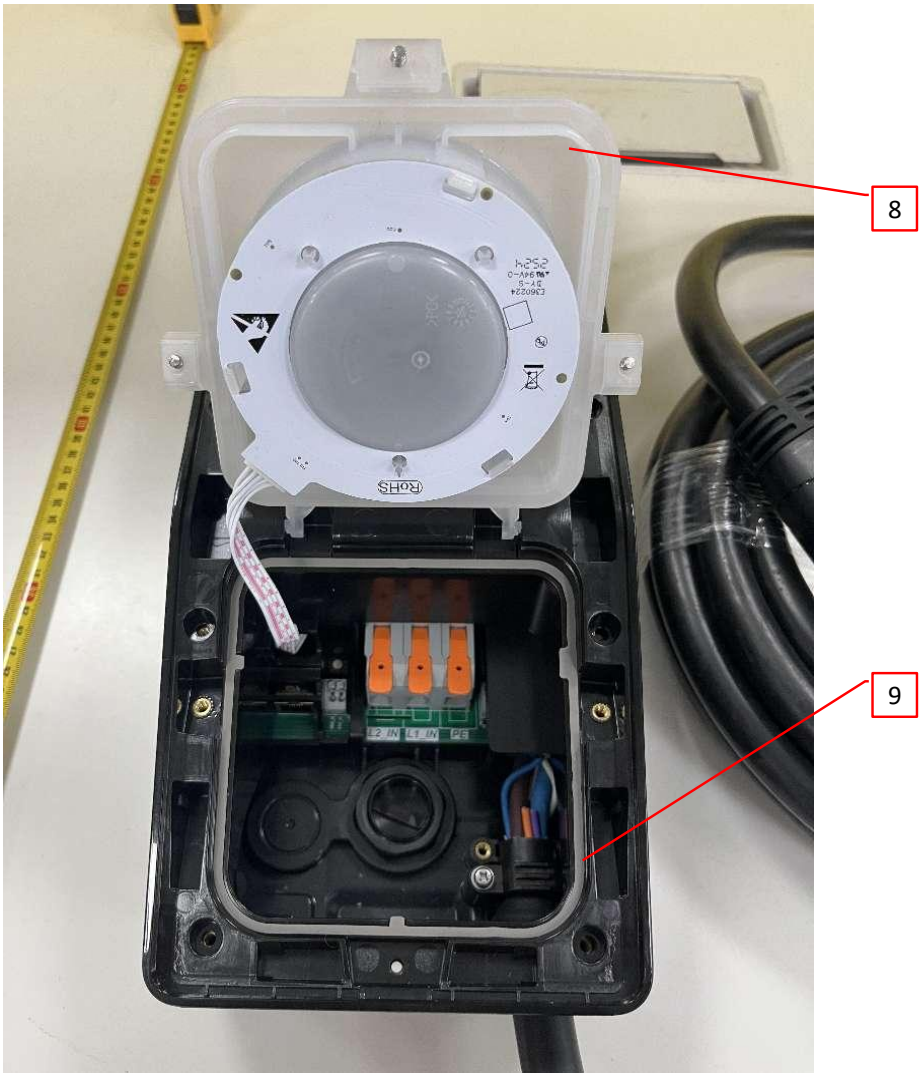


Photo 6 - front overview (remove cover)



3.0 Product Photographs

Photo 7 - Wiring Compartment



3.0 Product Photographs

Photo 8 - Internal View

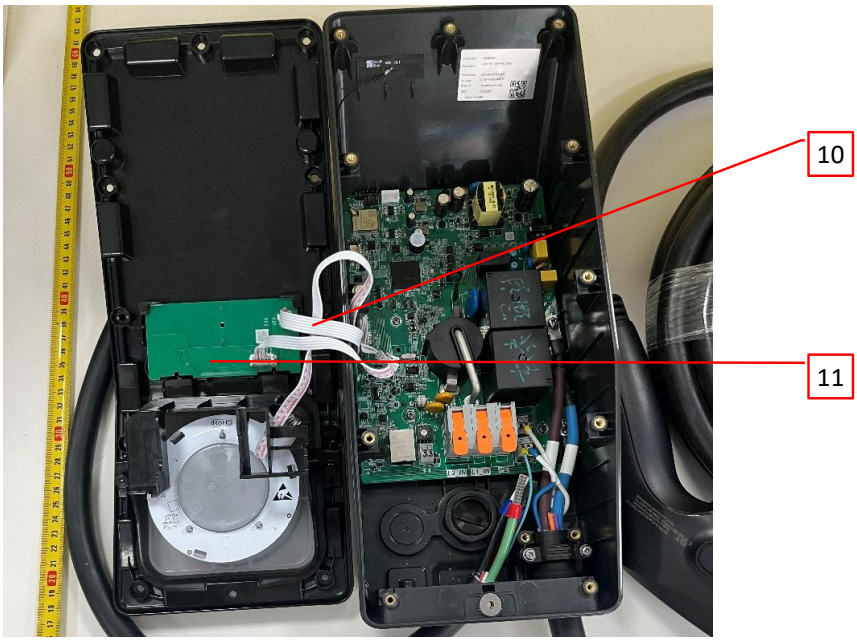
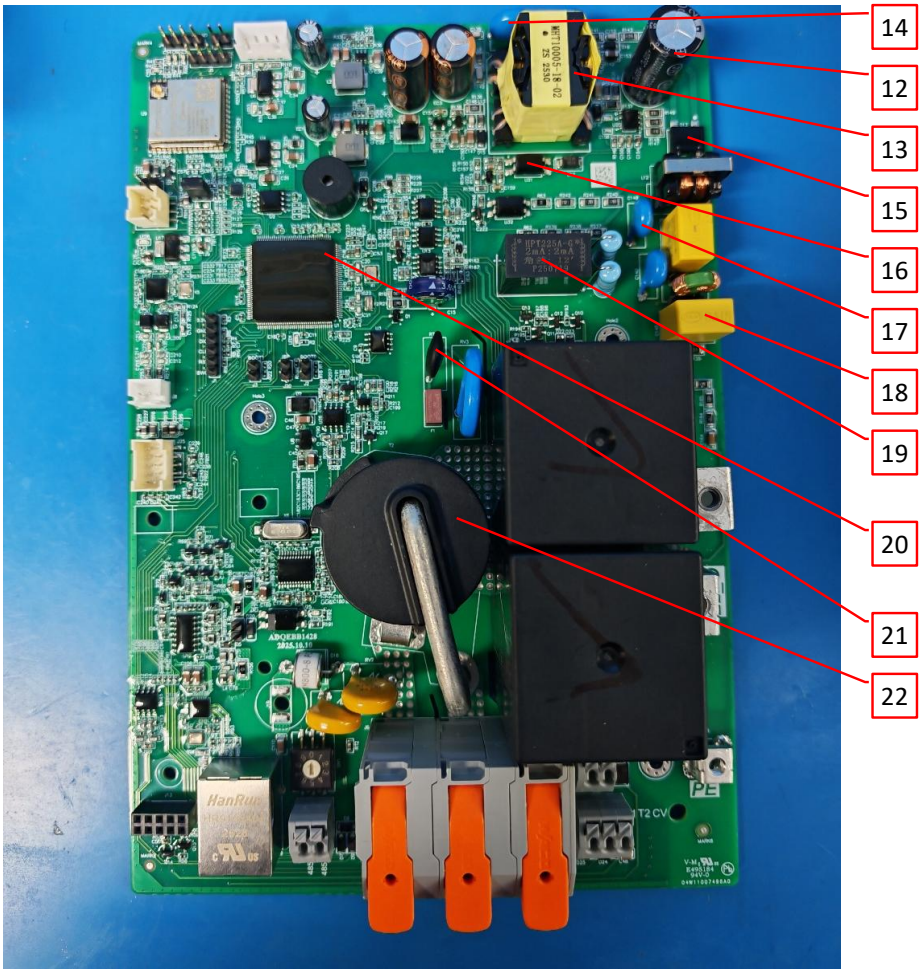
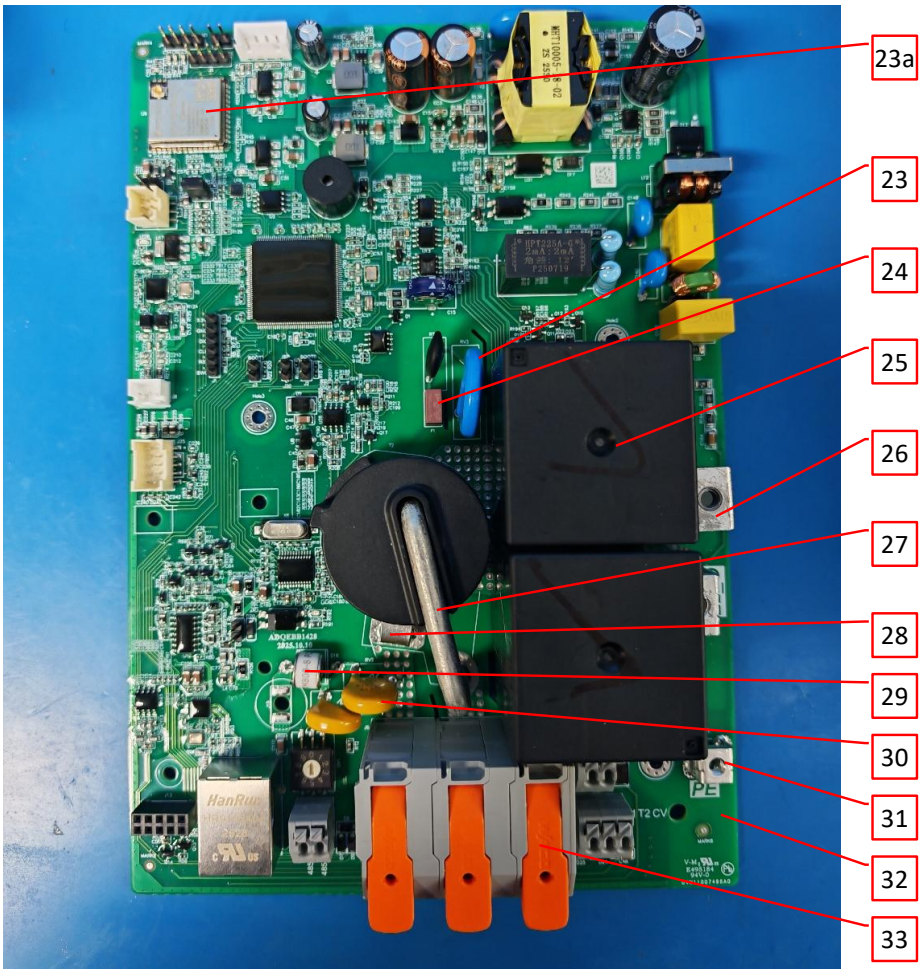


Photo 9 - Main PCB 1



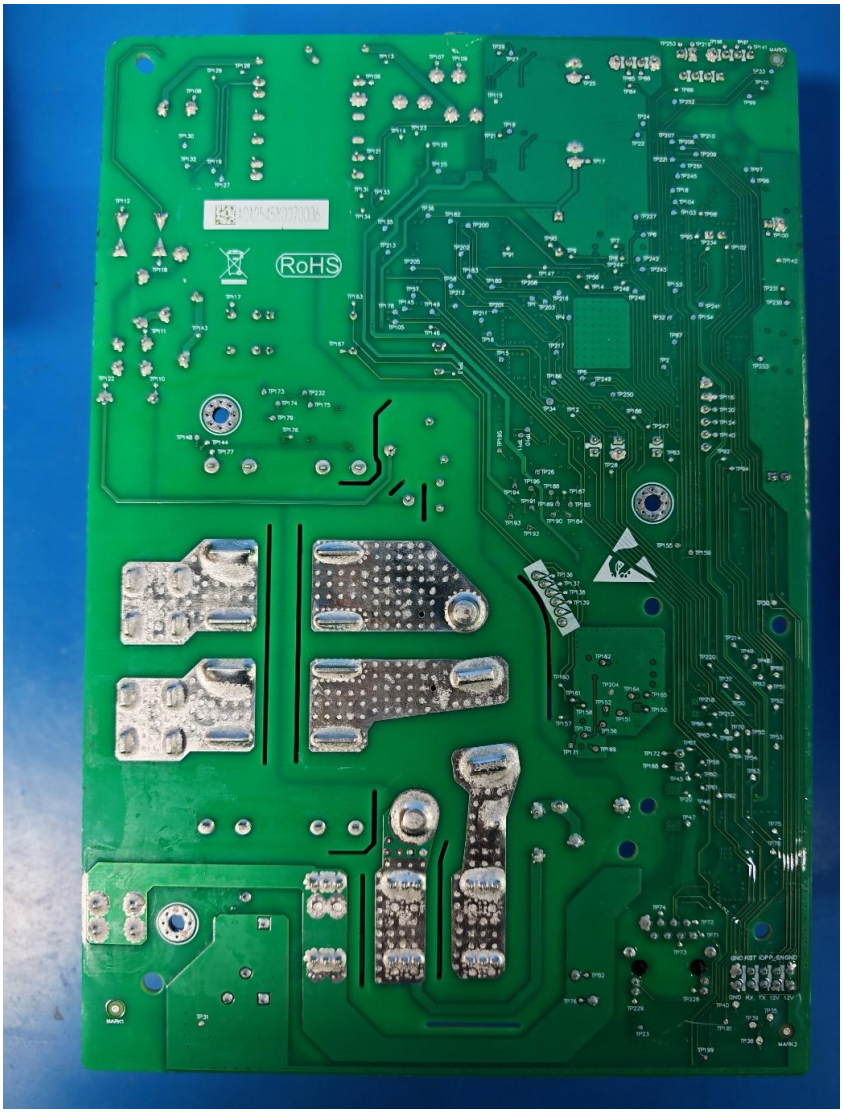
3.0 Product Photographs

Photo 10 - Main PCB 2



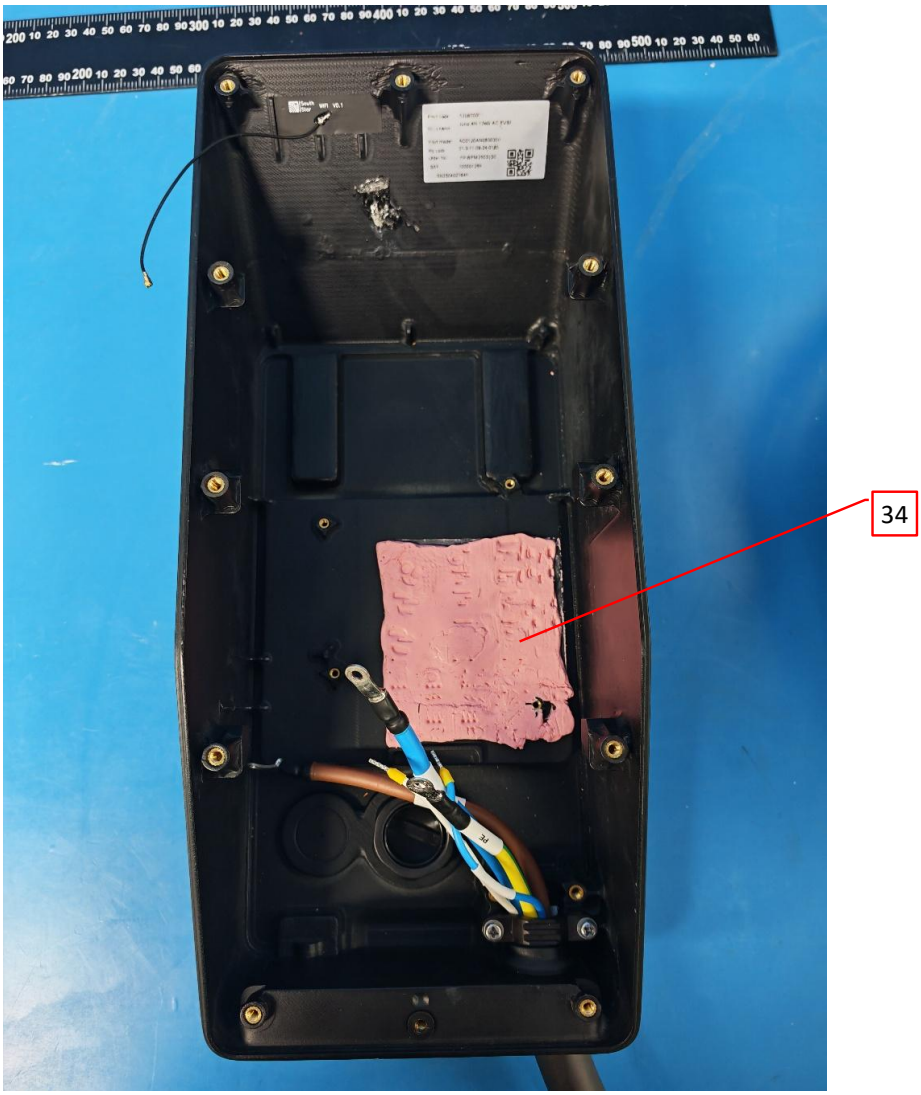
3.0 Product Photographs

Photo 11 - Main PCB (back)



3.0 Product Photographs

Photo 12 - Internal View without PCB



4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
1, 2	1	EV Cable	HOTRON PRECISION ELECTRONIC IND (SUZHOU) CO LTD E516181	EVH2003	3*9AWG+7*22AWG, 1000V, 105°C, FT2 used with model WB-TC-AC1.0-40A	cURus
				EVH2001	2*8AWG+1*10AWG+4*22AWG, 1000V, 105°C, FT2 used with model WB-TC-AC1.0-50A	cURus
			WUXI XINHONGYE WIRE & CABLE CO LTD E344326	EVE	2*9AWG+1*9AWG+1(2)*18AWG 600V, 105°C, VW-1 used with model WB-SC-AC1.0-40AS	cULus
				EVE	2*8AWG+1*10AWG+4*18AWG 600V, 105°C, VW-1 used with model WB-SC-AC2.0-50A	cULus
			GUANGDONG OMG TRANSMITTING TECHNOLOGY CO LTD E345899	OMG EVC 2003	2*9AWG+1*10AWG+2*18AWG 600V, 105°C, VW-1 used with model A-SM-AC050001-001S	cURus
			Hongqi Cable Electrical Instrument Group Co Ltd E520187	EVC1002	9AWG*2+10AWG*1+22AWG*1-6 600V, 105°C, FT2 used with model SY-SC-AC1.0-40AS and SY-NS-AC1.0-40AS	cURus
				EVC1003	8AWG*2+10AWG*1+22AWG*1-6 600V, 105°C, FT2 used with model SY-SC-AC1.0-50AS and SY-NS-AC1.0-50AS	cURus
			DONGGUAN CITY OUYA CABLE & WIRE CO LTD E532907	EVC1002	9AWG*2+10AWG*1+22AWG*1-6 600V, 105°C, FT2 used with model SY-SC-AC1.0-40AS and SY-NS-AC1.0-40AS	cURus
				EVC1003	8AWG*2+10AWG*1+22AWG*1-6 600V, 105°C, FT2 used with model SY-SC-AC1.0-50AS and SY-NS-AC1.0-50AS	cURus
			ITT CANNON (HK) LTD E540306	EVC-NS002	2*9AWG+1*10AWG+ 5*22AWG 600V, 105°C, FT1 used with model ACN1-T1B-050-2BK-076A-1AN1-484	cURus
			ITT CANNON ELECTRONICS (SHENZHEN) CO LTD E530915	EVE	4*11AWG+1*10AWG+18AWG 600V, 105°C, FT1 used with model ACS3-T1-052-2BK-076B-2C1-492	cULus
				EVE	2*9AWG+1*10AWG+ 18AWG 600V, 105°C, FT1 used with model ACS3-T1-040-2BK-076A-2C1-492	cULus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
1, 2	2	Connector	Suzhou Yihang Electronic Science and Technology Co., Ltd E535773	WB-TC-AC1.0-40A	240VAC, 50A, -40°C~50°C NACS connector	cURus
				WB-TC-AC1.0-50A	240VAC, 40A, -40°C~50°C NACS connector	cURus
				WB-SC-AC1.0-40AS	240VAC, 40A, -40°C~50°C Type 1 connector	cURus
				WB-SC-AC2.0-50A	240VAC, 50A, -40°C~50°C Type 1 connector	cURus
			C.C.P.CONTACT PROBES (FUJIAN) CO LTD E516931	A-SM-AC050001-001S	240VAC, 50A, -30°C~50°C Type 1 connector	cURus
			Shenzhen ShineYou New Enegry Technology Co., Ltd No. U10 131019 0006 & No. U10 131019 0011	SY-SC-AC1.0-40AS	240VAC, 40A, -40°C~50°C Type 1 connector	cURus
				SY-NS-AC1.0-40AS	240VAC, 40A, -40°C~50°C NACS connector	cURus
				SY-SC-AC1.0-50AS	240VAC, 50A, -40°C~50°C Type 1 connector	cURus
				SY-NS-AC1.0-50AS	240VAC, 50A, -40°C~50°C NACS connector	cURus
			ITT CANNON ELECTRONICS (SHENZHEN) CO LTD E531874	ACN1-T1B-050-2BK-076A-1AN1-484	240VAC, 50A, -40°C~50°C NACS connector	cURus
				ACS3-T1-052-2BK-076B-2C1-492	240VAC, 52A, -30°C~50°C Type1 connector	cURus
				ACS3-T1-040-2BK-076A-2C1-492	240VAC, 40A, -30°C~50°C Type1 connector	cURus
3	3	Power Cord Set	LONGWELL CO E55349	LP-1450	600V, with cable 2C*6AWG+1C*8AWG	cURus
5	4	Bushing	WYNCA TINYO SILICONE CO LTD E207571	TY2961	V-0, 150°C	cURus
6	5	Decorative Cover	LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD E302314	GN1006F(m)(#)(f1)	V-0, 3.0 mm thickness min 110 ºC	cURus
6	6	Internal Cover and Body	TEIJIN chemicals plastic compounds shanghai Ltd. E244324	LN-2525ZA (f1)	V-0, 5VA, 3.0 mm thickness min 115 ºC see Illustration 11 for details	cURus
			Covestro Deutschland AG E41613	Makrolon 6487(f1)	V-0, 5VA, 3.0 mm thickness min 115 ºC see Illustration 11 for details	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
6	7	Socket	TEIJIN chemicals plastic compounds shanghai Ltd. E244324	LN-2525ZA (f1)	V-0, 5VA, 3.0 mm thickness min 115 ºC	cURus
			Covestro Deutschland AG E41613	Makrolon 6487	5VA, 3.0 mm thickness min 115 ºc	cURus
7	8	Wiring Cover	CHI MEI CORPORATION E56070	PC-6715VT(f1)(a)	5VA, 3.0 mm thickness min 120 ºC	cURus
7	9	Gasket	WUJIANG FLYUP RUBBER HITECH CO LTD MH60110	3FL25A01P	V0, 120 ºC, suitable for Type 4	UR
8	9a	Gasket between cover and body (Not shown)	WUJIANG FLYUP RUBBER HITECH CO LTD MH60110	3FL25A01P	V0, 120 ºC, suitable for Type 4	UR
8	10	Inner Wires	DONGGUAN YAOBO ELECTRONIC CO LTD E332441	2468	6P-26AWG, 300V, 80ºC	cURus
				2468	10P-26AWG, 300V, 80ºC	cURus
8	11	RFID	Kunshan Quanbao Electronics Co.,	QB-WS1850S-LED2501	6.5Vdc, 13.56MHz	NR
9	12	Capacitor	Nantong Jianghai Capacitor Co.,Ltd	ECR2HQX220M LL125025E	500V22uF-12.5*25	NR
			CHANGZHOU HUAWEI ELECTRONICS CO.,LTD	LE2H220MI250A00CE0FI	500V22uF-12.5*25	NR
9	13	Transformer	Shinenergy Technology (Shanghai) Ltd	MHT10005-18-02	220VAC-12VDC&10VDC&(-12VDC)-100KHz-1.8mH 150mA/2A/0.2A Class A	NR
9	13a	Core (Not Shown)	Guanda	GP44	Mn-Zn PQ2016 Bs:390mT @100ºC (H=1194A/m) ui: 3000ref	NR
			TDG	TP4A		NR
			DMEGC	DMR44		NR
9	13b	BOBBIN (Not Shown)	SUMITOMO CHEMICAL CO.,LTD E41429	PM-9820.9630	V-0, 150°C	cURus
9	13c	TAPE (Not Shown)	Jingjiang YaHua Pressure Sensitive Glue Co.,LTD. E165111	CT-280	130°C	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
9	13d	WIRE (Not Shown)	Shandong Saint Electric Co., Ltd E194410	UEW/180	180°C	UR
9	13e	TRIPLE WIRE (Not Shown)	E&B TECHNOLOGY CO.,LTD E315265	E&B-XXX*YYZF E&B-XXX*F	155°C	UR
9	13f	VARNISH (Not Shown)	John C.Dolph Company INC. in USA E317427	BC-359	130°C	UR
9	13g	Tube (Not Shown)	GREAT HOLDING INDUSTRIAL CO LTD E156256	TFL	150V, 200°C	UR
				TFT	300V, 200°C	UR
				TFS	600V, 200°C	UR
			CHANGYUAN ELECTRONICS GROUP CO LTD E180908	CB-TT-L	150V, 200°C	cURus
				CB-TT-T	300V, 200°C	cURus
				CB-TT-S	600V, 200°C	cURus
9	14	Y Capacitor	XIAMEN SINO FAITH ELECTRONIC TECHNOLOGY CO LTD E328673	HCY	Y1-400VAC-Y5P-1nF	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD E208107	CD	Y1-400VAC-Y5P-1nF	cURus
9	15	Rectifier	Microdiode Semiconductor (Shenzhen) Co., Ltd. E541685	DB207S	1000V, 2A	UR
9	16	Optocoupler	EVERLIGHT ELECTRONICS CO LTD E214129	EL817	5000 vac isolation	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
9	17	Y Capacitor	XIAMEN SINO FAITH ELECTRONIC TECHNOLOGY CO LTD E328673	HCY	Y1-400VAC-680pf-Y5P	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD E208107	CD	Y1-400VAC-680pf-Y5P	cURus
9	18	X Capacitor	DAIN ELECTRONICS CO LTD E147776	MPX	X2, 330nF, 275VAC	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD E208107	MPX	X2, 330nF, 275VAC	cURus
9	19	Voltage Sensor	Beijing HOP technology CO., LTD	HPT225A-G	2mA-2mA-0.1%	NR
9	19a	Enclosure (Not shown)	NANTONG ORIENT PLASTICS CO LTD E332375	3080 GF(XX)	V-0, 75°C	cURus
9	19b	Filler (Not shown)	TIAN JIN XIN QIAO INSULATING MATERIAL CO LTD E196959	TXH-92H	V-0, 75°C	UR
9	19c	Magnet wire (Not shown)	BAIYIN YIZHI CHANGTONG SUPER MICRO-WIRE CO.,LTD E363385	xUEW/155	MW79-C,155ºC	UR
			ZHUHAI RONGSHENG SUPER MICRO-WIRE CO.,LTD E164502	UEW/155	MW79-C,155ºC	UR
9	20	MCU	GigaDevice Semiconductor Inc.	GD32E513xx	1.71~3.63V, -40ºC~85ºC	NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
9	21	RT6	NANJING SHIHENG ELECTRONICS CO LTD E241319	MF72 5D11	4A/240V	cURus
			THINKING ELECTRONIC INDUSTRIAL CO LTD E138827	SCK-054	4A/240V	cURus
9	22	Current Sensor	Beijing HOP technology CO., LTD	HCT401-80A-C-L	80A-40mA-±0.1%	NR
9	22a	Enclosure (Not shown)	NANTONG ORIENT PLASTICS CO LTD E332375	3080 GF(XX)	V-0, 75°C, Φ35*14	cURus
			QINGDAO QINKE ENGINEERING PLASTICS CO LTD E238981	301-G30B	V-0, 75°C, Φ35*12.5	cURus
9	22b	Filler (Not shown)	TIAN JIN XIN QIAO INSULATING MATERIAL CO LTD E196959	TXH-92H	V-0, 75°C	UR
9	22c	Magnet wire (Not shown)	HUIZHOU CITY DENGGAODA ELECTROTECH CO LTD E253843	X UEW x	MW75-C,130ºC	UR
10	23	Varistor	BESTBRIGHT ELECTRONICS CO LTD E327997	561KD20	350VAC-3000A -40ºC~105ºC	cURus
			THINKING ELECTRONIC INDUSTRIAL CO LTD E314979	TVR20561	350VAC-5000A -40ºC~105ºC	cURus
			THERMISTOR-MOV ELECTRONICS CO LTD E479221	HVR14D621-J	385VAC-5000A -40ºC~125ºC	cURus
10	23a	Wi-Fi module	Espressif Systems	ESP32-S3	FCC ID: 2AC7Z-ESPS3WROOM1U	NR
10	24	Fuse	DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD E300003	932	3.15A, 250V	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
10	25	Relay	XIAMEN HONGFA ELECTROACOUSTIC CO LTD E133481	HF198F/12-2HBTF(991)	2 NO + 1NC 50A, 440 Vac Coil: 12 Vdc, 3.6 W, contact gap 3.6mm	cURus
10	25a	RT3 (Not shown)	THINKING ELECTRONIC INDUSTRIAL CO LTD E138827	TSM1A103	10K-0603-1%	cURus
10	26	Output Teminal	SUCCEED ELECTRONICS CO..LTD	AO-10/4J-N24-D13	80A, 13mm*1.0mm, M4, 120ºC plated with Ti	NR
10	27	Conductor	Beijing HOP technology CO., LTD	Various	Φ5mm，33.5+41.25+33.5mm Plated with Tin	NR
10	28	Conductor	Beijing HOP technology CO., LTD	Various	7*2.5mm,15.25+17+15.25mm Plated with Tin	NR
10	29	GDT	SOCAY SHIJIAZHUANG UNION ELECTRONICS CO LTD E341061	SC2E8	800V, 10KA, -40ºC~125ºC	UR
			BESTBRIGHT ELECTRONICS CO LTD E327997	2RM800L-8	800V, 10KA, -40ºC~125ºC	cURus
10	30	Varistor	THINKING ELECTRONIC INDUSTRIAL CO LTD E314979	TVR10621&	395VAC-2000A -40ºC~105ºC	cURus
				TVR10471&	300VAC-2000A -40ºC~105ºC	cURus
			BESTBRIGHT ELECTRONICS CO LTD E327997	471KD10X	300VAC-3000A -40ºC~105ºC	cURus
10	31	Output PE Teminal	Jiangsu Unimas Electronic Technology Co.,Ltd	H0.8*5*10.2-BM4S4	40A, 8mm*0.8*mm, M4, 125ºC plated with Ti	NR
10	32	PCB	KUNSHAN DAYANG PRINTED CIRCUIT BOARD CO LTD E360224	DY-M	V-0, FR-4.0，2.0mm 130ºC	cURus
			Vabael Electronic Technology Co.,Ltd. E495184	V-M	V-0, FR-4.0，2.0mm 130ºC	cURus

4.0 Critical Components

Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
10	33	Input Terminal	WAGO GmbH & Co. KG E45172	2616-1353	300V，78A -60°C~+105 °C	cURus
			SHENZHEN SUCCEED ELECTRONICS TECHNOLOGY CO LTD E332956	TJ1500	600V,115A -40°C~+105 °C	cURus
			DEGSON TECHNOLOGY CO.,LTD. E228872	DG137T-15.0	600V,115A -40°C~+105 °C	cURus
12	34	Insulatiion Material	Suzhou Safid New Materials Technology Co Ltd E493384	SK-XX	V-0, 3.0 mm, 150ºC, HWI-0, HAI-0	cURus

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - UL 840 should be used for distance on PWB (PD 3/OVC II). 5.00 mm (L/L) minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity. 5.24 mm (L/L) minimum spacing are maintained through air and over surfaces of insulating material between current-carrying and dead-metal parts.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord or the equipment grounding terminal.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring is minimum 26 AWG, with a minimum rating of 300V, 80°C.
8. Schematics - No schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system paint-stenciled to polymeric as described as follows:
   1. The Applicant's name.
   2. Model Number as outlined in section 2.
   3. The electrical ratings; Input/Output in Volts and Amperes as outlined in section 2.
   4. The date or other dating period of manufacture not exceeding any three consecutive months.
   5. Environmental: Type 4.
   6. Temperature Rating: -30°C to 50°C.

   Other Markings;
   7. For use with Electric Vehicles.
   8. Ventilation Not Required.
10. Cautionary Markings - Refer to Illustration 5.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 6 and 7.
12. Transformer - Supplier records must be provided that indicate the received shipment of transformers (Section 4.0, Item 13) was constructed as indicated in Illustration 8, 9 and 10. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

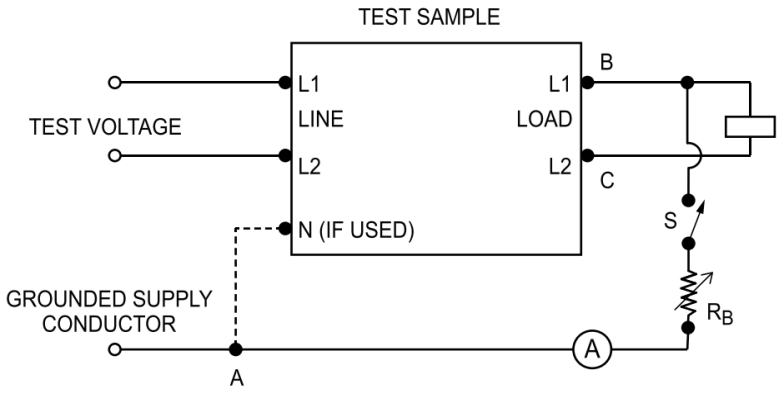
Illustration 1 - Table C1: Trip level

Table C1
Trip level

Type of device	Simulated fault current (mA)	Trip within (sec)	Minimum allowable trip fault current (mA)
CCID5	6	5.60	4.0
CCID20	20	1	15

Illustration 2 - Figure C2: Circuit for tests 1 and 2 (120/240 V and 120/208Y V)

Figure C2
Circuit for tests 1 and 2 (120/240 V and 120/208Y V)



su2479

Note: The sum of R_B and the resistance of meter A is to be not less than 500 ohms.

Illustration 3 - Table C2: Test voltage

Table C2
Test voltage

Rated voltage	Percent of rated voltage	Test voltage
120	85	102
	100	120
	110	132
120/240	85	204
	100	240
	110	264
120/208Y	85	177
	100	208
	110	229
Note: Devices rated both 120/240 V and 120/208Y V shall be tested at test voltages of 177, 240, and 264 volts.		

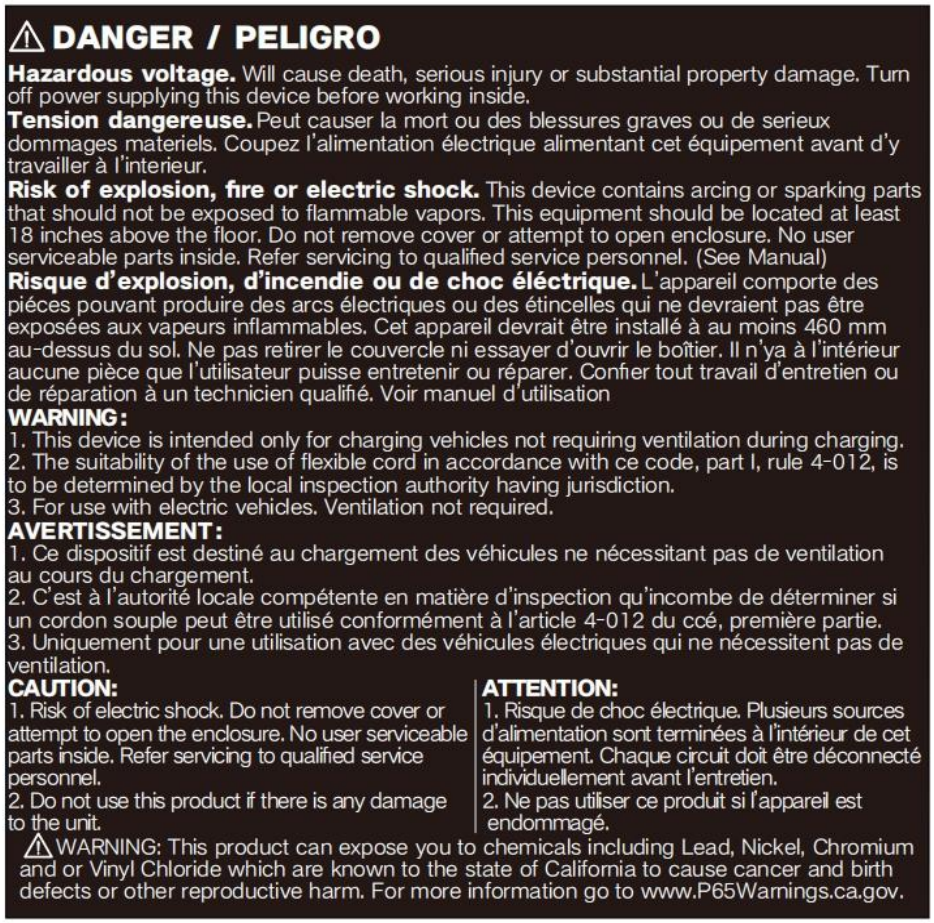
Illustration 4 - Table C3: Test parameters

Table C3
Test parameters

Rated voltage	Test voltage (percent of rated voltage)	Simulated fault current to ground (ma)	Trip within (millisecond)
120	102 (85)	204	36
	120 (100)	240	29
	132 (110)	264	25
120/240	204 (85)	204	36
	240 (100)	240	29
	264 (110)	264	25
120/208Y	177 (85)	204	36
	208 (100)	240	29
	229 (110)	264	25
Note: Devices rated both 120/240 V and 120/208Y V shall be tested at test voltages of 177, 240, and 264 volts.			

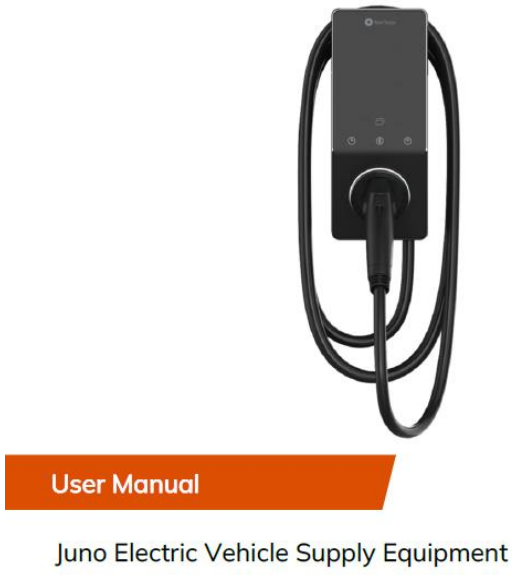
7.0 Illustrations

Illustration 5 - Cautionary and Warning marks



7.0 Illustrations

Illustration 6 - User manual cover as representative



7.0 Illustrations

Illustration 7 - Safety instruction in user manual

2 Safety

IMPORTANT SAFETY INSTRUCTIONS

2.1 General safety

Before charging your EV, please read the safety rules and usage instructions in this chapter as failure to do so may result in safety hazards or device failure.
During the installation and connection of the Charger, it is imperative to comply with the legal acts or regulations set forth by the respective country.

- Only qualified electricians (our company certified partners) should install, operate, commission, and maintain the EVSE.
- All installation and wiring must be done when the AC cables are not energized. This means that the EVSE cannot be turned on during this process. This helps to prevent electrical accidents, short circuits, and electric shock hazards. It makes sure that the system is not turned on during risky procedures, which reduces the chance of fires during installation or maintenance.
- Do not use the EVSE:
  - Near explosives or flammable substances.
  - In or near water.
  - If it is visibly damaged.
- Do not clean the EVSE with running water or a pressure washer.
- Do not change or modify the EVSE unless our company has approved it.
- Do not wrap the cables around the EVSE while charging.
- Do not put the connector on the ground. Put it in its holder after charging.
- Only do things that are described in this manual or the related manual, and that you are qualified to do.
- Follow the safety rules and accident prevention rules for the EVSE and the area where it is used.
- Make sure the EVSE is used in the environmental conditions that are specified for it.
- Only qualified electricians (Our company certified partners) should install, operate, commission, and maintain the EVSE.
- All installation and wiring must be done when the AC cables are not energized. This means that the EVSE cannot be turned on during this process. This helps to prevent electrical accidents, short circuits, and electric shock hazards. It makes sure that the system is not turned on during risky procedures, which reduces the chance of fires during installation or maintenance.
- When handling electrical connections, always follow safety protocols, wear the necessary personal protective equipment (PPE), and use insulated tools.

V 1.0.1 7

7.0 Illustrations

Illustration 8 - CONFIGURATION & DESCRIPTION (Transformer)

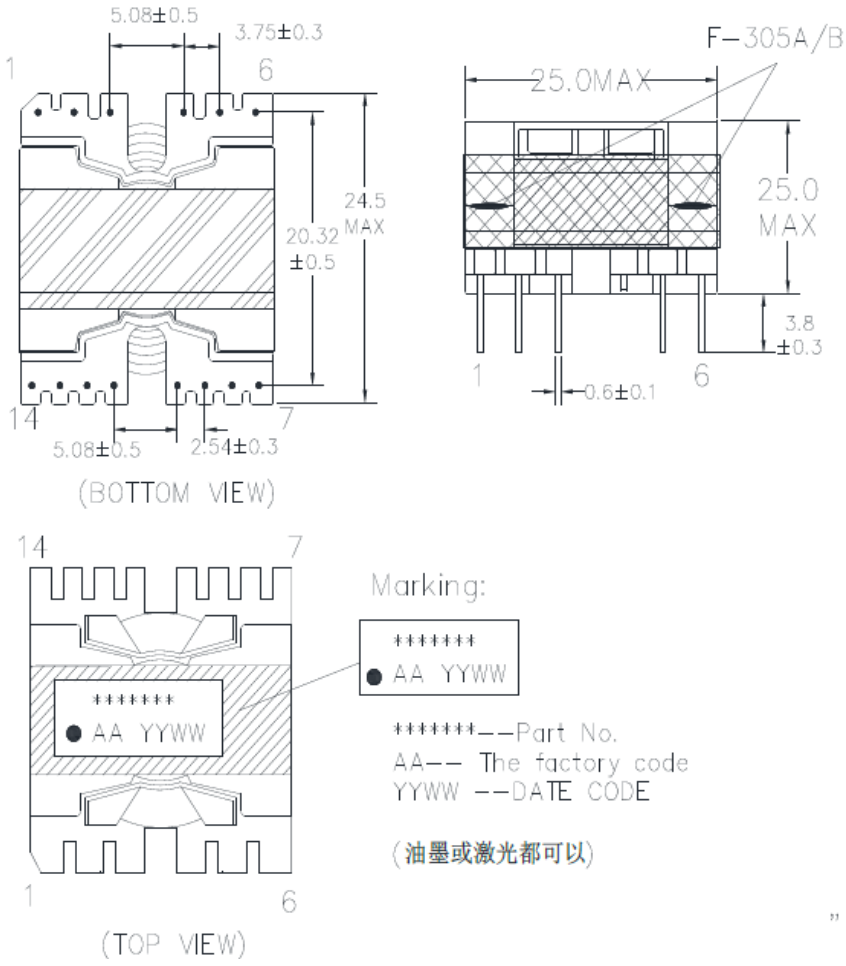
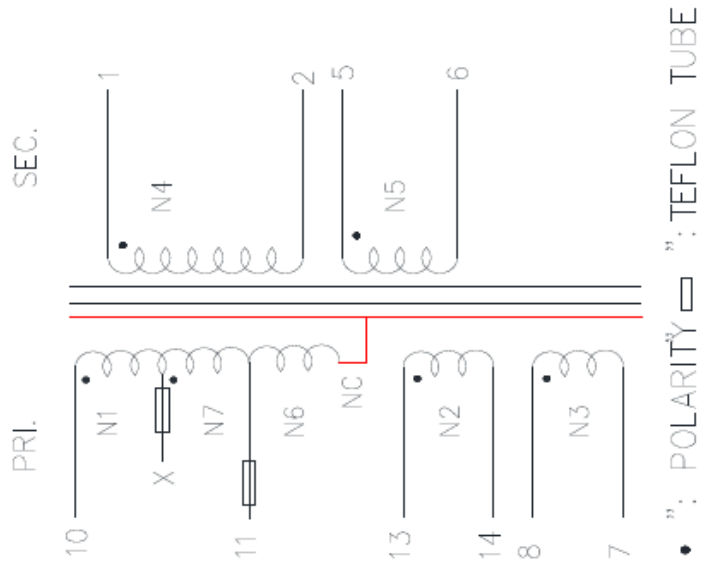


Illustration 9 - SCHEMATIC (Transformer)



7.0 Illustrations

Illustration 10 - Winding Data (Transformer)

绕组编号 Coil No.	开始 Start	结束 Finish	圈数 Turns	绕线方向 Direction	漆包线 Wire	层数 Laye	备注 Remarks
N1	10	X	40	top insert CCW	2UEW-Y 0.25*1	1	平整密绕1层，尾线加TFL TUBE
P						1	MlyarTape CT-280 YELLOW
N2	13	14	11	top insert CCW	2UEW-Y 0.25*1	1	平均疏绕1层
P						2	MlyarTape CT-280 YELLOW
N3	8	7	13	top insert CCW	TIW-2 0.25*1	1	平均疏绕1层
P						1	MlyarTape CT-280 YELLOW
N4	1	2	11	top insert CCW	TIW-2 0.20*7 LITZ	1	平均疏绕1层
P						1	MlyarTape CT-280 YELLOW
N5	5	6	14	top insert CCW	TIW-2 0.25*1	1	平均疏绕1层
P						2	MlyarTape CT-280 YELLOW
N6	11	NC	34~36	top insert CCW	2UEW-Y 0.25*1	1	平整密绕1层
P						1	MlyarTape CT-280 YELLOW
N7	X	11	28	top insert CCW	2UEW-Y 0.25*1	1	平整密绕1层，起线加TFL TUBE
P						1	MlyarTape CT-280 YELLOW
将两个 X线 线尾相绞焊锡，再加TFL 套管套住 ，折向线包内部							
P						2	MlyarTape CT-280 YELLOW

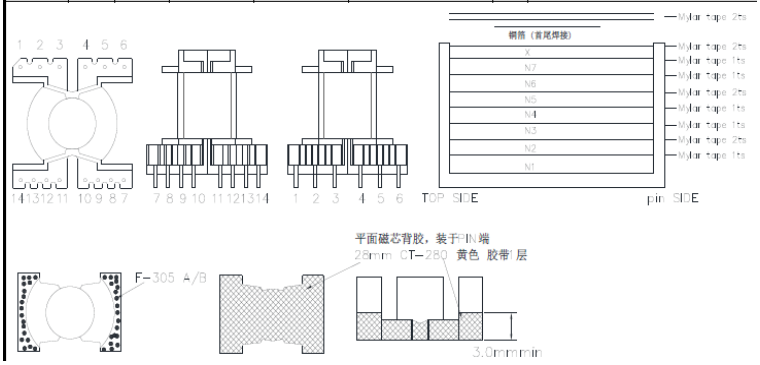
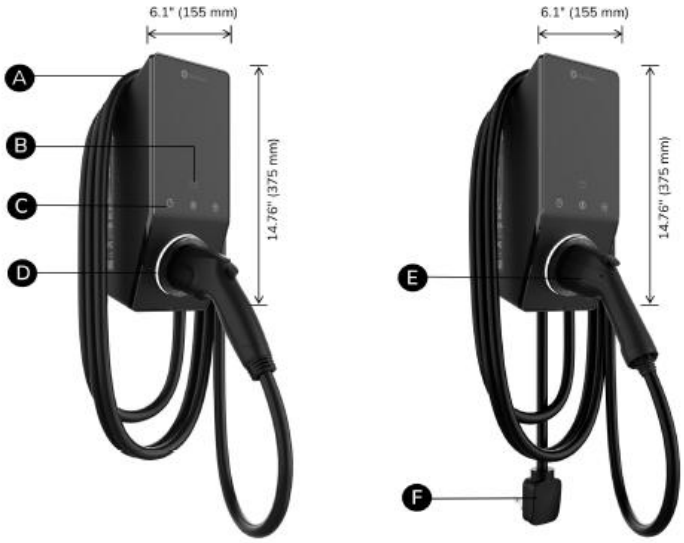


Illustration 11 - Model appearance



A Cable winding trough
B RFID reader (optional)
C Area for LED icons
D LED indicator
E Charging connector
F NEMA plug (optional)

8.0 Test Summary					
Evaluation Period	11/24/2025 to 04/10/2026			Project No.	250200098SHA
Sample Rec. Date	23-Nov-2025	Condition	Prototype	Sample ID.	A251123,A251204
Test Location	No. 86, 1198 Qinzhou Road (North), Shanghai 200233, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					

Test Description	UL 2594:2022 Ed.3 & CSA C22.2#280:2022 Ed.3 Clause	UL2231-2:2012 Ed.2+R:15Dec 2020 & CSA C22.2#281.2:2012Ed.1+U1;U2;U3 Clause	UL 50E:2020 Ed.3+R:30Apr2024 & CSA C22.2#94.2:2020 Ed.3+U1 Clause
Humidity Conditioning		20	
Leakage Current Tests	46	21	
Leakage Current Tests Following Humidity	47		
Input Test	48		
Normal Temperature Test	49	25	
Capacitor Discharge Test	50		
Dielectric Voltage Withstand Test	51	26	
Abnormal Tests	52	31	
Strain Relief Tests	54	35	
EV Cable Secureness Test	55		
Grounding Tests	56		
Impact Test	57	22.2	
Drop Test	59	22.3	
Mounting Means Test	64		
Mold Stress-Relief Distortion Test	66		
Ground-fault trip threshold		23.2	
Interrupting time		23.3	
High-Resistance Ground Fault Test		23.4	
Tests for ground monitor/interrupter		23.7	
Resistance to Environmental Noise Test		24	
Overload		27	
Low-Resistance Ground Fault Test		29	
Supervisory Circuit Test		30	
Extra-Low Resistance Ground Fault Test		32	
Short Circuit Test	52.4	33	
Hosedown test	B2.2		8.6

Test Description	UL 1998:2013 Ed.3+R:16 Nov2022 Clause	CSA C22.2#0.8:2019 Ed.4 Clause	UL 991:2004 Ed.3+R:09 Jun2010 Clause
Measures To Address Microelectronic Hardware Failure	8	Annex B	-
Protection against faults to ensure functional safety	-	5.5	-
Transient Overvoltage Test	-	-	12
Voltage Variation Test	-	-	13
Electromagnetic Susceptibility Tests	-	-	14
Electrostatic Discharge Test	-	-	15
Test for Effects of Shipping and Storage	-	-	17
Thermal Cycling Test	-	-	18
Humidity Test	-	-	19

Test Description	Functional Safety		
Functional Safety clause 9.2.1 & 33			
The above noted clauses have been properly addressed	Helen Cai		

8.0 Test Summary			
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Snape Chen	Reviewed by:	Sim Zhu
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	Star Charge (Jiangsu) Digital Technology Co., Ltd.
Address	Room 406, Building 3, Linghang Mansion, High-speed Rail New Town, 3 Xiushuihe Road, Xinqiao Street, Xinbei District, Changzhou, Jiangsu
Country	China
Product	JUNO AC CHARGE

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
3) a control number issued by Intertek
4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, “Conforms to” shall appear with the standard number along with the word, “Standard” or “Std.” Example: “Conforms to ANSI/UL Std. XX.”

For Canadian standards, the words “Certified to CAN/CSA Standard CXX No. XX.” shall be used, or abbreviated, “Cert. to CAN/CSA Std. CXX No. XX.”

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.
The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services (Shanghai FTZ) Co., Ltd
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Emiliana Zhou
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test, CCID Trip - Rated Load - Low Leakage, CCID Trip - Rated Load - High Leakage, Manufacturer's Proprietary Test Program for GM/I

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.
The test shall be conducted on all products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts, Level 1 & 2 Outputs and dead metal parts. Primary input lines to Primary output lines. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.
Removal of surge limiters before the testing is permissible.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.
The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.
If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:
1 - a voltmeter in the primary circuit;
2 - a selector switch marked to indicate the test potential; or
3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.
In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product	**Test Voltage**	**Test Time**
All products covered by this Report.	1700VAC	60 s
	or	
	2040VAC	1 s
Product - One sample from each shipment of Section 4.0 Item 13:	**Test Voltage**	**Test Time**
Between primary and secondary	3980VAC	60 s

11.2 CCID Trip - Rated Load - Low Leakage, CCID Trip

Method

Each finished product shall comply with the trip level requirements for a CCID20 type of device in Table C1 (Illustration 1).

For devices rated 120/240 V or 120/208Y V, each unit shall be connected to the test circuit shown in Figure C2 (Illustration 2) with rated current in the load circuit. The test shall be performed with the fault circuit connected between points A and B, and repeated the test between points A and C.

The test voltage shall be set in turn to 85, 100, and 110 percent of the rated voltage of the device under test in accordance with Table C2 (IIIlustration 3).

For each test voltage a simulated fault current shall be applied by gradually reducing the value of RB. The device shall trip within the specified time (Table C1 Illustration 1), and shall not trip below the specified “Minimum Allowable Trip Fault Currents (Table C1 Illustration 1).

Test Equipment

All test equipment shall be maintained in current calibration.

Products Requiring CCID Trip - Rated Load - Low Leakage, CCID Trip:

Product

All products covered by this Report.

11.3 CCID Trip - Rated Load - High Leakage

Method

The test shall be repeated on each device as described in CCID Trip - Rated Load - Low Leakage, except that RB shall be varied to obtain the test parameters detailed in Table C3 (Illustration 4) .

For devices rated 120/240 V or 120/208 V, each unit shall be connected to the test circuit shown in Figure C2 (Illustration 2). The test shall be repeated with the fault circuit connected to points A and C of Figure C2.

Test Equipment

All test equipment shall be maintained in current calibration.

Products Requiring CCID Trip - Rated Load - High Leakage:

Product

All products covered by this Report.

11.4 Manufacturer’s Proprietary Test Program for GM/I

Method

The Manufacturer’s Proprietary Test Program for GM/I shall include means to verify correct operation of the GM/I functions of 100 percent of production of systems incorporating a GM/I. The testing shall verify that the GM/I inhibits the application of power to the load with a loss of grounding continuity in all protected grounding conductors. The testing shall also verify that the GM/I will interrupt the power to the load when the grounding continuity is lost during operation.

Test Equipment

All test equipment shall be maintained in current calibration.

Products Requiring Manufacturer’s Proprietary Test Program for GM/I:

Product

All products covered by this Report.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
				None