

BESS Load Test Report														
Model:	P30			Serial No: 2023110010			Rated Power: 34kVA							
Time	Voltage(V)			Current(A)			Output Power (kW)	Load Rate (%)	Freq (Hz)	Battery Average Temp (c°)	Inverter Average Temp (c°)	Charge Rate (kW)	Battery Level SOC (%)	
	UA	UB	UC	IA	IB	IC								
0800	239.1	240.8	241.4	3.8	4.1	4.2	0	0	50	25	26	0	94	
0805	234.4	239.1	241.2	36.4	31.9	32.7	23.8	70	50	25	33	0	92	
0830	234.8	239.2	241.4	36.4	31.7	32.5	23.6	70	50	29	36	0	68.4	
0900	237.1	239.1	239.2	36.9	37.4	39.6	0	0	50	34	38	25	90.8	
0930	234.9	239.1	241.7	30.4	26.8	27.1	20	60	50	30	38	0	70.4	
1000	238.1	239.3	241.7	30.4	26.8	27.1	20	60	50	31	38	0	50.4	
1030	234.9	240.9	241.9	36.4	37.3	39.5	0	0	50	29	36	25	92	
1100	235.5	238.7	241.2	30.4	26.6	27.1	20	60	50	32	38	0	60	
1130	235.6	239.1	241.1	26.2	23.2	23.7	17	50	50	28	38	0	91.2	
1200	237.2	239.2	241.5	26.3	23.1	23.5	17	50	50	30	38	0	60.2	
1230	237.4	239.9	239.2	25.7	23.4	25.1	0	0	50	32	37	17	92.8	
1300	235.5	239.7	241.9	16.8	13.7	13.8	10	34	50	29	35	0	77.2	
1330	235.2	240.3	242.6	10.6	7.6	8.1	5	17	50	30	33	0	64	
Comments: Performed as expected No Results or issues during test.														
Tested By:			P. Elliott			Sign:			P.60			7/11/25		

BESS Load Test Report													
Model: FOXTEON P30				Serial No: 2023110010			Rated Power: 34.4/4						
Time	Voltage(V)			Current(A)			Output Power (kW)	Load Rate (%)	Freq (Hz)	Battery Average Temp (c°)	Inverter Average Temp (c°)	Charge Rate (kW)	Battery Level SOC (%)
	UA	UB	UC	IA	IB	IC							
1400	235.7	240.3	238.5	34.5	33.1	32.7	5	17	50	34	38	25	85.2
1430	234.7	239.1	240.6	44.8	40.7	41.6	30	90	50	29	41	0	62
1500	235.2	239.5	241.6	9.3	7.8	8.4	25	17	50	32	34	25	60.4
1505	236.1	239.3	238.9	35.9	36.4	38.7	0	0	50	35	40	26	72.8
Comments: Performed as expected. No faults or issues during test.													
Tested By: P. Elliott				Sign: P. Elliott				7/11/2025					



ELECTROMAGNETIC COMPATIBILITY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2014/30/EU Electromagnetic Compatibility Directive has been taken as references for these processes.

Company Name : Foxtheon Energy Technology (Fuzhou) Co., Ltd.

Company Address : Plant 1#, No.7 Tieling East Road, Guankou, Jingxi Town, Minhou County, Fujian Province, China

Related Directives and Annex : 2014/30/EU Electromagnetic Compatibility Directive / Annex II

Related Standards : EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

Product Name : Battery Energy Storage System

Report No and Date : SiCT2309261327E

Product Brand/Model/Type : P60 MAX, E100, E150, E200, M15, M30, M60, M60 MAX, P30, P60, P200, P300, P350, P400, P500

Certificate Number : M.2023.206.C91761

Initial Assessment Date : 23.10.2023

Registration Date : 24.10.2023

Reissue Date/No : -

Expiry Date : 23.10.2028

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TEST REPORT

Applicant: Foxtheon Energy Technology (Fuzhou) Co., Ltd.

Address: Plant 1#, No.7 Tieling East Road, Guankou, Jingxi Town, Minhou County, Fujian Province.

Manufacturer: Foxtheon Energy Technology (Fuzhou) Co., Ltd.

Address: Plant 1#, No.7 Tieling East Road, Guankou, Jingxi Town, Minhou County, Fujian Province.

EUT: Battery Energy Storage System

Trademark: 

Model Number: P60 MAX
E100, E150, E200, M15, M30, M60, M60 MAX, P30, P60, P200, P300, P350, P400, P500

Test Date: Sep. 27, 2023 - Oct. 12, 2023

Date of Report: Oct. 12, 2023

Report No.: SiCT2309261327E

Test Standard: EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019

Test Result: Pass

Compiled by:



Daisy Wei

Reviewed by:



Sky Wang

Approved by:



Andy Wang/Manager



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen SiCT Technology Co., Ltd.

TABLE OF CONTENT

1. DESCRIPTION OF DEVICE (EUT)	3
2. TEST SUMMARY	3
3. MEASUREMENT UNCERTAINTY	4
4. DESCRIPTION OF TEST MODES	4
5. DESCRIPTION OF TEST SETUP	4
6. DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	4
7. TEST INSTRUMENT USED	5
8. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST	8
9. RADIATION EMISSION TEST	12
10. HARMONIC CURRENT EMISSION TEST	16
11. VOLTAGE FLUCTUATIONS & FLICKER TEST	17
12. ELECTROSTATIC DISCHARGE IMMUNITY TEST	19
13. RF FIELD STRENGTH SUSCEPTIBILITY TEST	22
14. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST	25
15. SURGE TEST	27
16. INJECTED CURRENTS SUSCEPTIBILITY TEST	29
17. VOLTAGE DIPS AND INTERRUPTIONS TEST	31
18. EUT PHOTOGRAPHS	33

1. DESCRIPTION OF DEVICE (EUT)

EUT : Battery Energy Storage System

Trademark : 
P60 MAX

Model Number : E100, E150, E200, M15, M30, M60, M60 MAX, P30, P60, P200, P300, P350, P400, P500

Power Supply : AC 400-415V/50Hz

2. TEST SUMMARY

Standard	Test Item	Limit	Judgment
EN IEC 61000-6-4:2019	Conducted Emission	Class B	PASS
	Radiated Emission	Class B	PASS
EN IEC 61000-3-2:2019+A1:2020	Harmonic Current Emission	Class A or D NOTE (2)	PASS
EN 61000-3-3:2013+A1:2019	Voltage Fluctuations & Flicker	-----	PASS
Section EN IEC 61000-6-2:2019	Test Item	Performance Criteria	Judgment
EN 61000-4-2:2009	Electrostatic Discharge	B	PASS
EN IEC 61000-4-3:2020	RF electromagnetic field	A	PASS
EN 61000-4-4:2012	Fast transients	B	PASS
EN 61000-4-5:2014+A1:2017	Surges	B	PASS
EN 61000-4-6:2014/AC:2015	Injected Current	A	PASS
EN 61000-4-8:2010	Power Frequency Magnetic Field	A	PASS
EN IEC 61000-4-11:2020	Volt. Interruptions Volt. Dips	B / C / C NOTE (3)	PASS

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) The power consumption of EUT is less than 75W and no Limits apply.

(3) Voltage dip: 100% reduction – Performance Criteria **B**

Voltage dip: 30% reduction – Performance Criteria **C**

Voltage Interruption: 100% Interruption – Performance Criteria **C**

(4) For client's request and manual description, the test will not be executed.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Method	Measurement Frequency Range	U, (dB)	NOTE
ANSI	150 KHz ~ 30MHz	3.0	

B. Radiated Measurement :

Method	Measurement Frequency Range	U, (dB)	NOTE
ANSI	30MHz ~ 1000MHz	4.7	
	1GHz ~6GHz	5.0	

4. DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For all Test Mode	Description
Mode 1	Running Mode

5. DESCRIPTION OF TEST SETUP

EUT

6. DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Battery Energy Storage System	N/A	P60 MAX	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

7. TEST INSTRUMENT USED

For Conducted Emission at the mains terminals Test

Conducted Emission Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Dec. 27, 2022	Dec. 26, 2023
EMI Receiver	R&S	ESCI	101421	Dec. 27, 2022	Dec. 26, 2023
LISN	SCHWARZBECK	NSLK8127	812779	Dec. 27, 2022	Dec. 26, 2023
Pulse Limiter	R&S	ESH3-Z2	100681	Dec. 27, 2022	Dec. 26, 2023
843 Cable 1#	FUJIKURA	843C1#	001	Dec. 27, 2022	Dec. 26, 2023

For Disturbance Power Test

Conducted Emission Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
EMI Receiver	R&S	ESCI	101421	Dec. 27, 2022	Dec. 26, 2023
Power Clamp	LUTHI	MDS21	4293	Dec. 27, 2022	Dec. 26, 2023
Attenuator	R&S	ESH3-Z2	SiCT021E	Dec. 27, 2022	Dec. 26, 2023
843 Cable 2#	FUJIKURA	843C1#	002	Dec. 27, 2022	Dec. 26, 2023

For Radiated Emission Test

Radiation Emission Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Dec. 27, 2022	Dec. 26, 2023
Spectrum Analyzer	Agilent	E4407B	MY45109572	Dec. 27, 2022	Dec. 26, 2023
Amplifier	Schwarzbeck	BBV9743	9743-119	Dec. 27, 2022	Dec. 26, 2023
Amplifier	Schwarzbeck	BBV9718	9718-270	Dec. 27, 2022	Dec. 26, 2023
Log-periodic Antenna	Schwarzbeck	VULB9160	VULB9160-3369	Dec. 27, 2022	Dec. 26, 2023
EMI Receiver	R&S	ESCI	101421	Dec. 27, 2022	Dec. 26, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1275	Dec. 27, 2022	Dec. 26, 2023
966 Cable 1#	CHENGYU	966	004	Dec. 27, 2022	Dec. 26, 2023
966 Cable 2#	CHENGYU	966	003	Dec. 27, 2022	Dec. 26, 2023

For Harmonic & Flicker Test

For Harmonic / Flicker Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Harmonic / Flicker Analyzer	KIKUSUI	KHA1000	VA002445	Dec. 27, 2022	Dec. 26, 2023
AC Power Supply	KIKUSUI	PCR4000M	UK001879	Dec. 27, 2022	Dec. 26, 2023
Line Impedance network	KIKUSUI	LIN1020JF	UL001611	Dec. 27, 2022	Dec. 26, 2023

For Electrostatic Discharge Immunity Test

For Electrostatic Discharge Immunity Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
ESD Tester	KIKISUI	KES4201A	UH002321	Dec. 27, 2022	Dec. 26, 2023

For RF Field Strength Susceptibility Test(SMQ)

For RF Field Strength Susceptibility Test (SMQ --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Signal Generator	HP	8648A	3625U00573	Dec. 27, 2022	Dec. 26, 2023
Amplifier	A&R	500A100	17034	Dec. 27, 2022	Dec. 26, 2023
Amplifier	A&R	100W/1000M1	17028	Dec. 27, 2022	Dec. 26, 2023
Audio Analyzer (20Hz~1GHz)	Panasonic	2023B	202301/428	Dec. 27, 2022	Dec. 26, 2023
Isotropic Field Probe	A&R	FP2000	16755	Dec. 27, 2022	Dec. 26, 2023
Antenna	EMCO	3108	9507-2534	Dec. 27, 2022	Dec. 26, 2023
Log-periodic Antenna	A&R	AT1080	16812	Dec. 27, 2022	Dec. 26, 2023

For Electrical Fast Transient /Burst Immunity Test

For Electrical Fast Transient/Burst Immunity Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Burst Tester	Prima	EFT61004AG	PR14054467	Dec. 27, 2022	Dec. 26, 2023
Coupling Clamp	Prima	EFT61004AG	SiCT009E	Dec. 27, 2022	Dec. 26, 2023

For Surge Test

For Surge Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Burst Tester	Prima	EFT61004AG	PR14054467	Dec. 27, 2022	Dec. 26, 2023

For Injected Currents Susceptibility Test

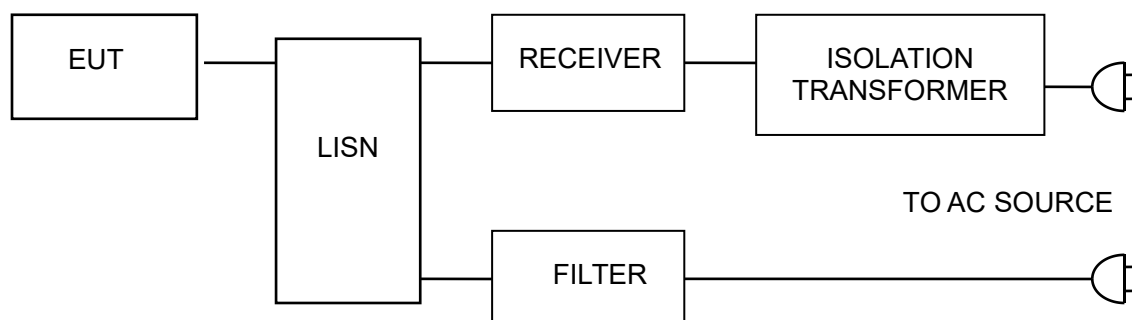
For Injected Currents Susceptibility Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
C/S Test System	SCHLODER	CDG600	126B1281	Dec. 27, 2022	Dec. 26, 2023
CDN	SCHLODER	CDN-M2+3	A2210320/20 15	Dec. 27, 2022	Dec. 26, 2023
Injection Clamp	SCHLOBER	EMCL-20	132A1214/20 15	Dec. 27, 2022	Dec. 26, 2023

For Voltage Dips Interruptions Test

For Voltage Dips Interruptions Test (A --- site)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Dips Tester	Prima	DRP61011AG	PR14086284	Dec. 27, 2022	Dec. 26, 2023

8. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

- Block Diagram Of Test Setup



- Test Standard

EN IEC 61000-6-4

- Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

- EUT Configuration on Test

The following equipments are installed on conducted emission test to meet EN IEC 61000-6-4 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

- Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test modes and test it.

- Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **EN IEC 61000-6-4** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

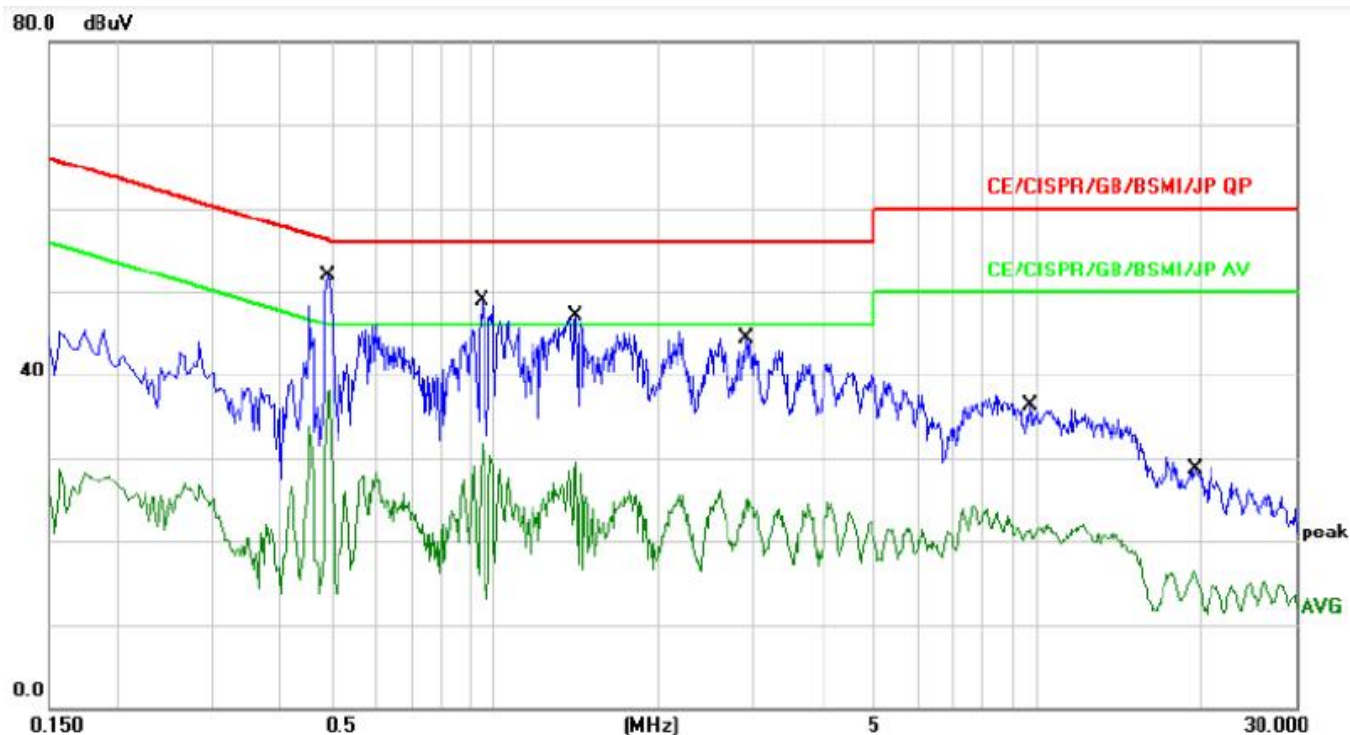
- Test Result

PASS

Please refer to the following page.

Conducted Emission At The Mains Terminals Test Data

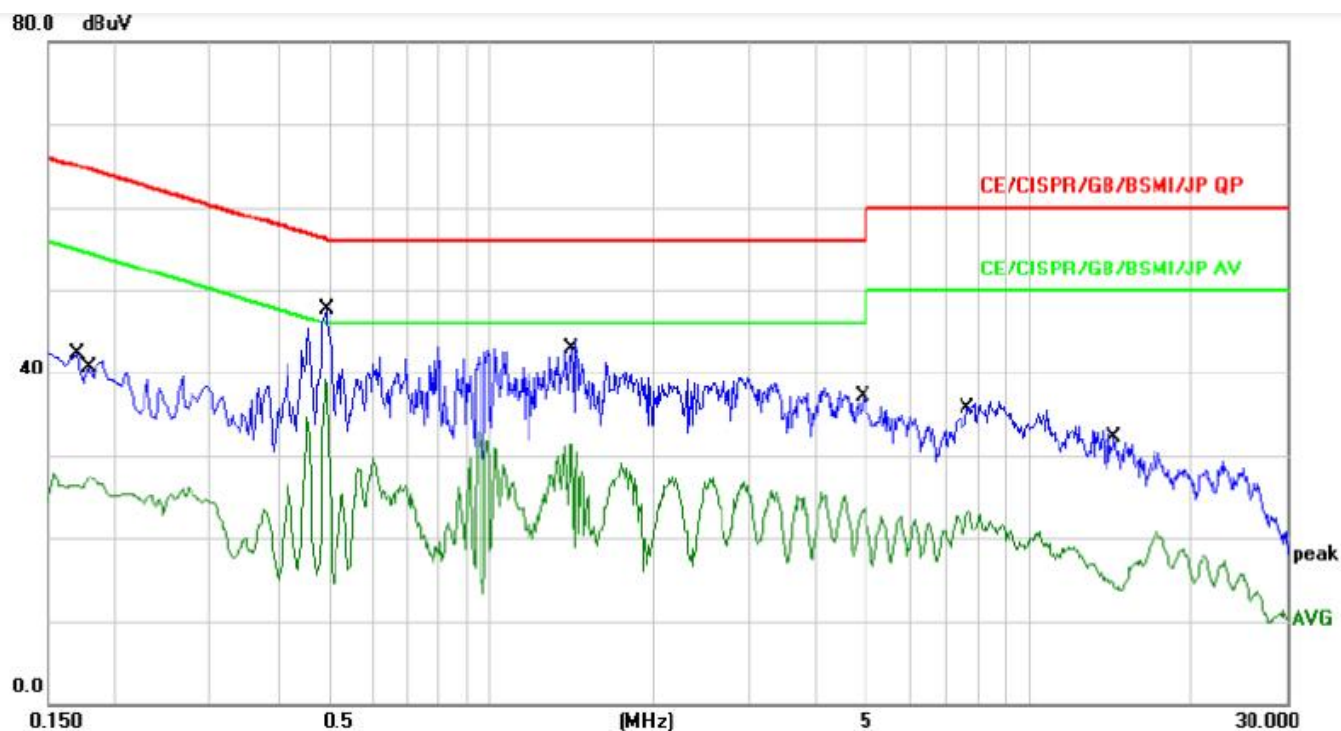
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Line
Test Voltage:	AC 400-415V/50Hz	Test Mode:	On Mode



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4900	41.80	10.11	51.91	56.17	-4.26	QP	
2		0.4940	28.01	10.11	38.12	46.10	-7.98	AVG	
3		0.9460	38.76	10.16	48.92	56.00	-7.08	QP	
4		0.9460	21.53	10.16	31.69	46.00	-14.31	AVG	
5		1.4060	37.00	10.17	47.17	56.00	-8.83	QP	
6		1.4060	19.28	10.17	29.45	46.00	-16.55	AVG	
7		2.9140	34.15	10.19	44.34	56.00	-11.66	QP	
8		2.9140	14.86	10.19	25.05	46.00	-20.95	AVG	
9		9.7180	26.11	10.12	36.23	60.00	-23.77	QP	
10		9.7180	11.64	10.12	21.76	50.00	-28.24	AVG	
11		19.5340	18.67	10.17	28.84	60.00	-31.16	QP	
12		19.5340	5.76	10.17	15.93	50.00	-34.07	AVG	

Conducted Emission At The Mains Terminals Test Data

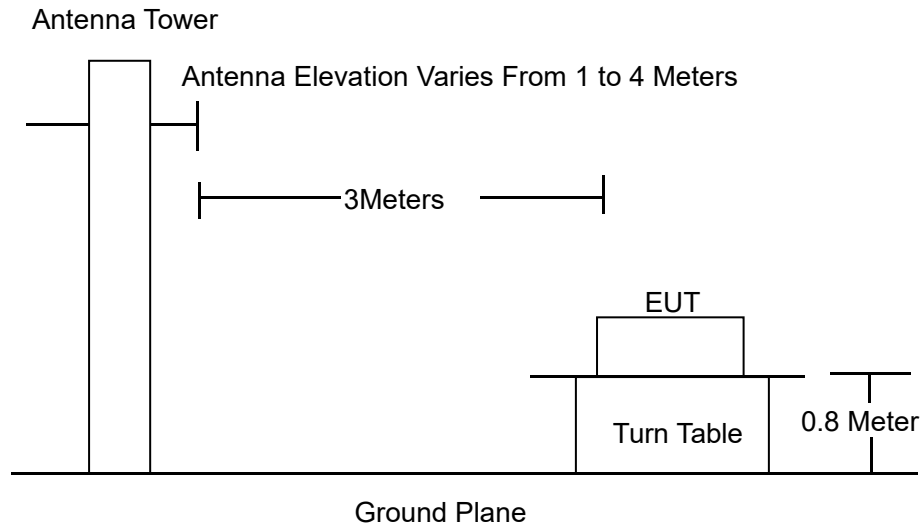
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Neutral
Test Voltage:	AC 400-415V/50Hz	Test Mode:	On Mode



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	32.18	10.06	42.24	64.96	-22.72	QP	
2		0.1780	17.34	10.06	27.40	54.57	-27.17	AVG	
3		0.4900	37.56	10.11	47.67	56.17	-8.50	QP	
4	*	0.4900	29.02	10.11	39.13	46.17	-7.04	AVG	
5		1.4020	33.83	10.17	44.00	56.00	-12.00	QP	
6		1.4020	21.20	10.17	31.37	46.00	-14.63	AVG	
7		4.9180	27.00	10.15	37.15	56.00	-18.85	QP	
8		4.9180	13.53	10.15	23.68	46.00	-22.32	AVG	
9		7.7060	26.11	10.10	36.21	60.00	-23.79	QP	
10		7.7060	13.14	10.10	23.24	50.00	-26.76	AVG	
11		14.4180	22.04	10.14	32.18	60.00	-27.82	QP	
12		14.4180	6.28	10.14	16.42	50.00	-33.58	AVG	

9. RADIATION EMISSION TEST

- Block Diagram of Test Setup



- Test Standard
EN IEC 61000-6-4

- Radiation Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 230	3	40.0
230 ~ 1000	3	47.0

Remark:

(1) Emission level (dB(μ V)/m) = 20 log Emission level (μ V/m)

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

- EUT Configuration on Test

The EN IEC 61000-6-4 regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 2.2.

- Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

- Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to EN IEC 61000-6-4 on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.

The frequency range from 30MHz to 1000MHz is checked.

- Test Result

PASS

Please refer to the following page.

Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage:	AC 400-415V/50Hz	Test Mode:	On Mode

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		32.7486	35.11	-8.37	26.74	40.00	-13.26	QP		
2		122.8340	41.91	-14.54	27.37	40.00	-12.63	QP		
3	*	187.7530	43.59	-15.29	28.30	40.00	-11.70	QP		
4		252.9482	34.85	-14.12	20.73	47.00	-26.27	QP		
5		558.7302	23.36	-6.85	16.51	47.00	-30.49	QP		
6		881.4067	35.41	-1.89	33.52	47.00	-13.48	QP		

Radiation Emission Test Data

Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage:	AC 400-415V/50Hz	Test Mode:	On Mode

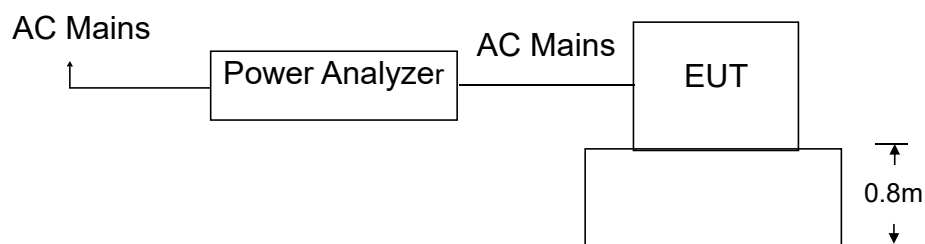
80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	37.8121	39.10	-8.74	30.36	40.00	-9.64	QP		
2		66.2662	42.98	-13.03	29.95	40.00	-10.05	QP		
3		125.8864	44.66	-14.36	30.30	40.00	-9.70	QP		
4		133.6188	44.12	-13.85	30.27	40.00	-9.73	QP		
5		189.7385	43.02	-15.55	27.47	40.00	-12.53	QP		
6		547.0977	25.80	-7.20	18.60	47.00	-28.40	QP		

10. HARMONIC CURRENT EMISSION TEST

Block Diagram of Test Setup



Test Standard
EN 61000-3-2

Operating Condition of EUT

Setup the EUT as shown in Section 5.1.
Turn on the power of all equipments.
Let the EUT work in test mode and test it.

Test Procedure

The power cord of the EUT is connected to the output of the test system. Turn on the power of the EUT and use the test system to test the harmonic current level.

Test Results

PASS

11. VOLTAGE FLUCTUATIONS & FLICKER TEST

- Block Diagram of Test Setup
Same as Section 6.1.

- Test Standard
EN 61000-3-3

- Operating Condition of EUT
Same as Section 5.3.. The power cord of the EUT is connected to the output of the test system. Turn on the power of the EUT and use the test system to test the harmonic current level.

Flicker Test Limit

Test items	Limits
Pst	1.0
dc	3.3%
Tmax	4.0%
dt	Not exceed 3.3% for 500ms

- Test Procedure
The power cord of the EUT is connected to the output of the test system. Turn on the power of the EUT and use the test system to test the harmonic current level.

- Test Results

PASS

Please refer to the following page.

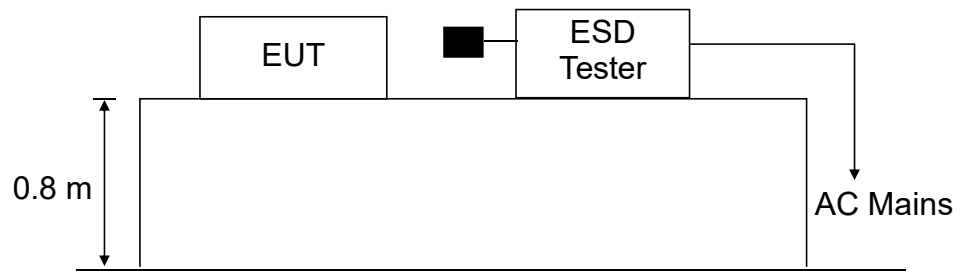
Flicker Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage:	AC 400-415V/50Hz	Test Mode:	ON

Voltage Fluctuation	Limit	Value
Relative Voltage Change Characteristic Tmax (dc>3%)	500 ms	0 ms
Maximum Relative Voltage Change dmax	4%	0.00
	6%	/
	7%	/
Relative Steady-state Voltage Change dc	3.3%	0.00

Flicker	Limit	Value
Short-term Flicker Indicator Pst	1.0	0.063
Long-term Flicker Indicator Plt	0.65	/

12. ELECTROSTATIC DISCHARGE IMMUNITY TEST

- Block Diagram of Test Setup



- Test Standard

EN IEC 61000-6-2, EN 61000-4-2

Severity Level: 3 / Air Discharge: $\pm 8\text{KV}$

Level: 2 / Contact Discharge: $\pm 4\text{KV}$

- Severity Levels and Performance Criterion

- 7.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

- 7.3.2 Performance criterion : B

- The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i
- The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

- C.** Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

- **EUT Configuration**

The following equipments are installed on Electrostatic Discharge Immunity test to meet EN IEC 61000-6-2, EN 61000-4-2, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 2.4.

- **Operating Condition of EUT**

Same as conducted emission measurement, which is listed in Section 3.5 except the test setup replaced by Section 7.1.2.

- **Test Procedure**

7.6.1 Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2 Contact Discharge:

All the procedure shall be same as Section 7.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.6.4 Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are complete illuminated.

Test Results

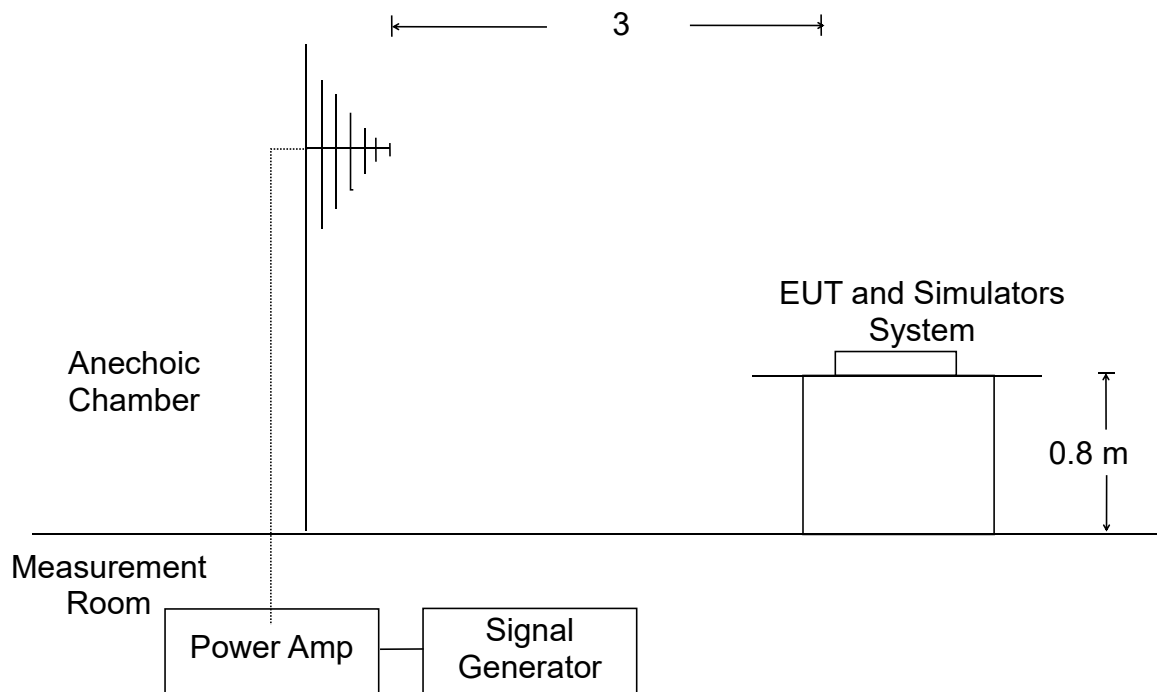
PASS

Please refer to the following page.

ESD Test Data				
Temperature:	24.5℃	Humidity:	53%	
Power Supply :	AC 400-415V/50Hz	Test Mode:	On	
Air Discharge: ± 8KV				
Contact Discharge: ± 4KV				
Test Points	Air Discharge	Contact Discharge	Performance Criterion	Result
Enclosure	±2,4,8KV	N/A	B	PASS
Slit	±2,4,8KV	N/A	B	PASS
Metal Part	N/A	±2,4 KV	B	PASS
VCP	N/A	±2,4 KV	B	PASS
HCP	N/A	±2,4 KV	B	PASS
Note: N/A				

13. RF FIELD STRENGTH SUSCEPTIBILITY TEST

- Block Diagram of Test Setup



- Test Standard

EN IEC 61000-6-2, EN 61000-4-3

Severity Level 2, 3V / m

- Severity Levels and Performance Criterion

8.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

8.3.2. Performance criterion: A

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is

allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

EUT Configuration on Test

The following equipments are installed on Electrical Fast Transient/Burst Immunity test to meet EN IEC 61000-6-2, EN 61000-4-4:2012, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 3.4.

Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5 except the test setup replaced by Section 8.1.

Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 – 1000 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	1 Sec.

● Test Results

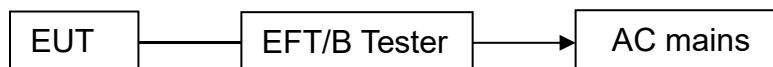
PASS

Please refer to the following page.

R/S Test Data			
Temperature : 25℃		Humidity : 53%	
Field Strength: 3 V/m		Criterion: A	
Power Supply: AC 400-415V/50Hz		Frequency Range: 80 MHz to 1000 MHz	
Modulation: ☒ AM ☐ Pulse ☐ none 1 KHz 80%			
Test Mode : On			
	Frequency Range : 80-1000MHz		
Steps	1 %		
	Horizontal	Vertical	Result
Front	A	A	Pass
Right	A	A	Pass
Rear	A	A	Pass
Left	A	A	Pass
Note: N/A			

14. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

- Block Diagram of EUT Test Setup



- Test Standard

EN IEC 61000-6-2, EN 61000-4-4

- Severity Levels and Performance Criterion

Severity Level 2 at 1KV, Pulse Rise time & Duration: 5 nS / 50 nS
Severity Level:

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On power ports	On I/O(Input/Output) Signal data and control ports
1.	0.5KV	0.25KV
2.	1KV	0.5KV
3.	2KV	1KV
4.	4KV	2KV
X.	Special	Special

Performance criterion: B

- The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i
- The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

- EUT Configuration on Test

The following equipments are installed on Electrical Fast Transient/Burst Immunity test to meet EN IEC 61000-6-2, EN 61000-4-4:2012, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 3.4.

- Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.6 except the test setup replaced by Section 9.1.

- Test Procedure

EUT shall be placed 0.8m high above the ground reference plane which is a min.1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m

9.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.

- Test Results

PASS

Please refer to the following page.

EFT Test Data				
Temperature:	24.5℃		Humidity:	53%
Power Supply :	AC 400-415V/50Hz		Test Mode:	On
Coupling Line	Test Voltage		Performance Criterion	Result
	±0.5kV	±1kV		
L	±0.5kV	±1kV	B	PASS
N	±0.5kV	±1kV	B	PASS
L-N	±0.5kV	±1kV	B	PASS
PE	±0.5kV	±1kV	B	PASS
L-PE	±0.5kV	±1kV	B	PASS
N-PE	±0.5kV	±1kV	B	PASS
L-N-PE	±0.5kV	±1kV	B	PASS
DC Line	/	/		/
Note: N/A				

15. SURGE TEST

- Block Diagram of EUT Test Setup



- Test Standard
EN IEC 61000-6-2, EN61000-4-5

- Severity Levels and Performance Criterion
Severity Level: Line to Line, Level 2 at 1KV;
Severity Level: Line to Earth, Level 3 at 2KV.

Severity Level	Open-Circuit Test Voltage (KV)
1.	0.5
2.	1.0
3.	2.0
4.	4.0
X.	Special

- Performance criterion: B

- The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i
- The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

- EUT Configuration on Test

The following equipments are installed on Electrical Fast Transient/Burst Immunity test to meet EN IEC 61000-6-2, EN61000-4-5:2014, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 3.4.

- Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.7 except the test setup replaced by Section 10.1.

- Test Procedure

- 1) Set up the EUT and test generator as shown on section 10.1
- 2) For line to line coupling mode, provide a 1KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Repeat procedure 2) to 4) except the open-circuit test voltage change from 1KV to 2KV for line to earth coupling mode test.
- 6) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

- Test Result

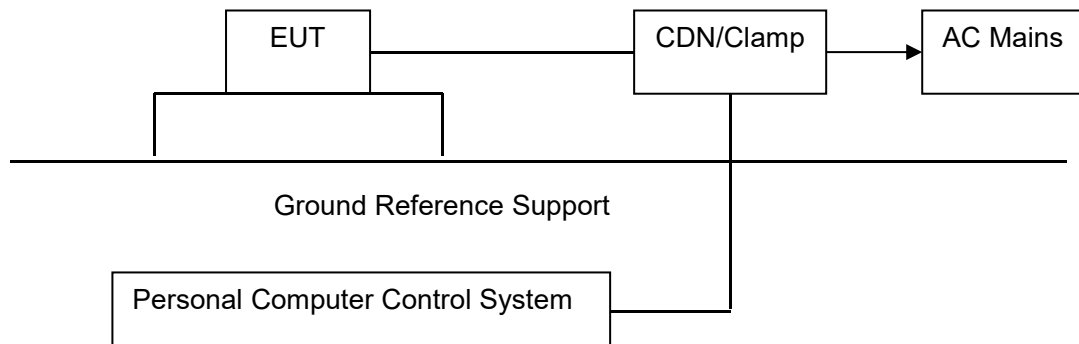
PASS

Please refer to the following page.

Surge Test Data								
Temperature:		24.5℃		Humidity:		53%		
Power Supply :		AC 400-415V/50Hz		Test Mode:		On		
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Performance Criterion	Result		
L-N	+	90	5	1	B	Pass		
	-	90	5	1		Pass		
	+	270	5	1		Pass		
	-	270	5	1		Pass		
L-PE	+	90	5	2		B	Pass	
	-	90	5	2			Pass	
	+	270	5	2			Pass	
	-	270	5	2			Pass	
N-PE	+	90	5	2			B	Pass
	-	90	5	2				Pass
	+	270	5	2				Pass
	-	270	5	2				Pass
Note: N/A								

16. INJECTED CURRENTS SUSCEPTIBILITY TEST

- Block Diagram of EUT Test Setup



- Test Standard

EN IEC 61000-6-2, EN61000-4-6

- Severity Levels and Performance Criterion

Severity Level 2: 3V(rms), 150KHz ~ 80MHz

Severity Level:

Level	Field Strength V
1.	1
2.	3
3.	10
X.	Special

Performance criterion: A

- The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i
- The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

- EUT Configuration on Test

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 2.8.

- Operating Condition of EUT

- Same as conducted emission test, which is listed in Section 2.8 except the test set up replaced as Section 11.1.

- Test Procedure

Set up the EUT, CDN and test generator as shown on section 11.1

Let EUT work in test mode and measure.

The EUT and supporting equipments are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane at above 0.1-0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

The disturbance signal described below is injected to EUT through CDN.

The EUT operates within its operational mode(s) under intended climatic conditions after power on.

The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave

The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

Recording the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

- Test Result

PASS

Please refer to the following page.

CS Test Data						
Temperature:		24.5℃		Humidity:		53%
Power Supply :		AC 400-415V/50Hz		Test Mode:		On
Frequency Range(MHz)	Injected Position	Strength	Modulation Signal	Freq. Step	Performance Criterion	Result
150KHz ~ 80MHz	AC Line	3V(rms), Unmodulated	AM 80%, 1kHz sine wave	1%	A	Pass
150KHz ~ 80MHz	DC Line	3V(rms), Unmodulated	AM 80%, 1kHz sine wave	1%	/	/
Note: N/A						

17. VOLTAGE DIPS AND INTERRUPTIONS TEST

- Block Diagram of EUT Test Setup



- Test Standard

EN IEC 61000-6-2, EN61000-4-11

- Severity Levels and Performance Criterion

Severity Level:

Input and Output AC Power Ports.

☒ Voltage Dips.

☒ Voltage Interruptions.

Environmental Phenomena	Test Specification	Units	Performance Criterion
Voltage Dips	70 25	% Reduction period	C
	40 10	% Reduction period	C
Voltage Interruptions	0 0.5	% Reduction period	C

Performance criterion: B, C, C

- The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as i
- The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

- EUT Configuration on Test

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 2.10.

- Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.10 except the test set up replaced as Section 13.1.

- Test Procedure

- 1) Set up the EUT and test generator as shown on section 13.1
- 2) The interruption is introduced at selected phase angles with specified duration. There is a 3mins minimum interval between each test event.
- 3) After each test a full functional check is performed before the next test.
- 4) Repeat procedures 2 & 3 for voltage dips, only the level and duration is changed.
- 5) Record any degradation of performance.

- Test Result

PASS

Please refer to the following page.

DIPS Test Data			
Temperature:	24.5℃	Humidity:	53%
Power Supply :	AC 400-415V/50Hz	Test Mode:	On
Environmental Phenomena	Test Specification	Units	Performance Criterion
Voltage Dips	70	% Reduction period	C
	25		
	40	% Reduction period	C
	10		
Voltage Interruptions	0	% Reduction period	C
	0.5		

18. EUT PHOTOGRAPHS







***** END OF REPORT *****



MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : Foxtheon Energy Technology (Fuzhou) Co., Ltd.

Company Address : Plant 1#, No.7 Tieling East Road, Guankou, Jingxi Town, Minhou County, Fujian Province, China

Related Directives and Annex : 2006/42/EC Machinery Directive/Annex VIII

Related Standards : EN ISO 12100:2010, EN 60204-1:2018

Product Name : Battery Energy Storage System

Report No and Date : SiCT2309261328S

Product Brand/Model/Type : P60 MAX, E100, E150, E200, M15, M30, M60, M60 MAX, P30, P60, P200, P300, P350, P400, P500

Certificate Number : M.2023.206.C91760

Initial Assessment Date : 23.10.2023

Registration Date : 24.10.2023

Reissue Date/No : -

Expiry Date : 23.10.2028

UDEM International Certification
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Address: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY

Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76

E-mail: info@udem.com.tr www.udem.com.tr





Smart energy makes a low-carbon earth

Product model	:	P60MAX-RP
Product Description:		EnergyPack
Output power	:	34KWH
Version	:	V0.01

Company name:	Foxtheon Energy Technology (Fu zhou) Co.,Ltd
Address	No.7 East Road,Tieling Industrial Zone Minhou County, Fuzhou, China
TEL	: +86 0591 2351 0987
FAX	: +86 0591 2351 0987
E-mail	: sales @foxtheon.com
Website	: nas.foxtheon.com

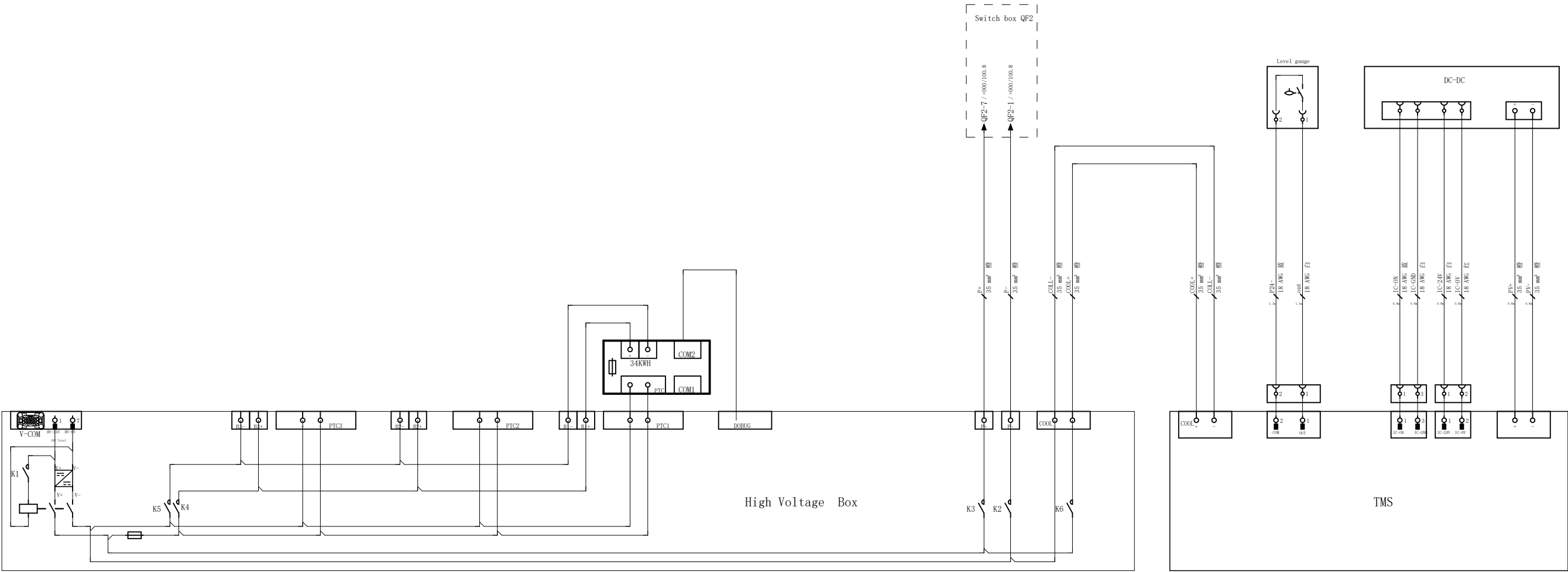
Designers	:	peter.chen
Output voltage	:	3ph 400VAC 50Hz
power supply	:	Genset+PV
control voltage	:	24 VDC
Ingress Protection	:	IP 54
Production Date	:	2024
Production address	:	China

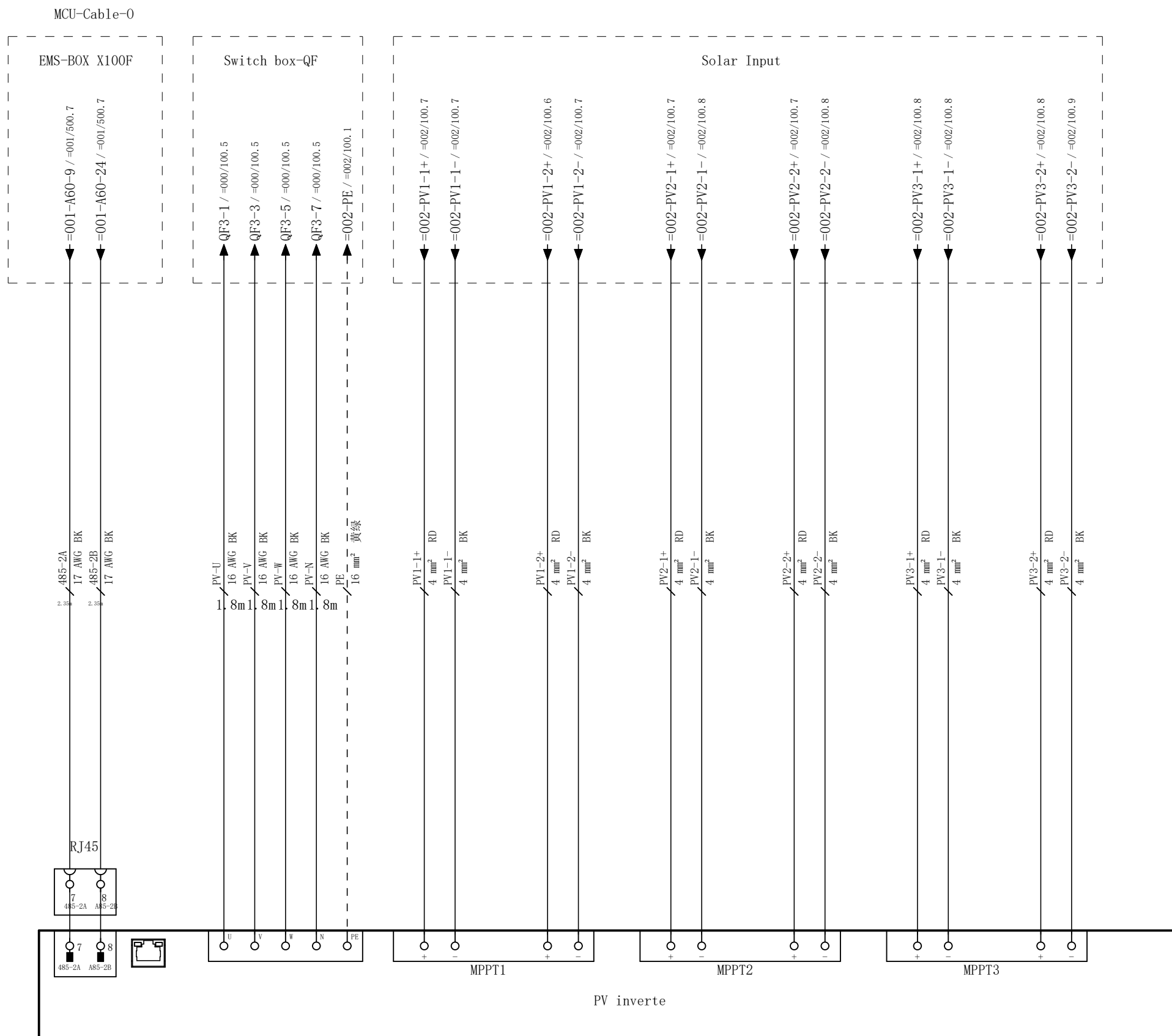


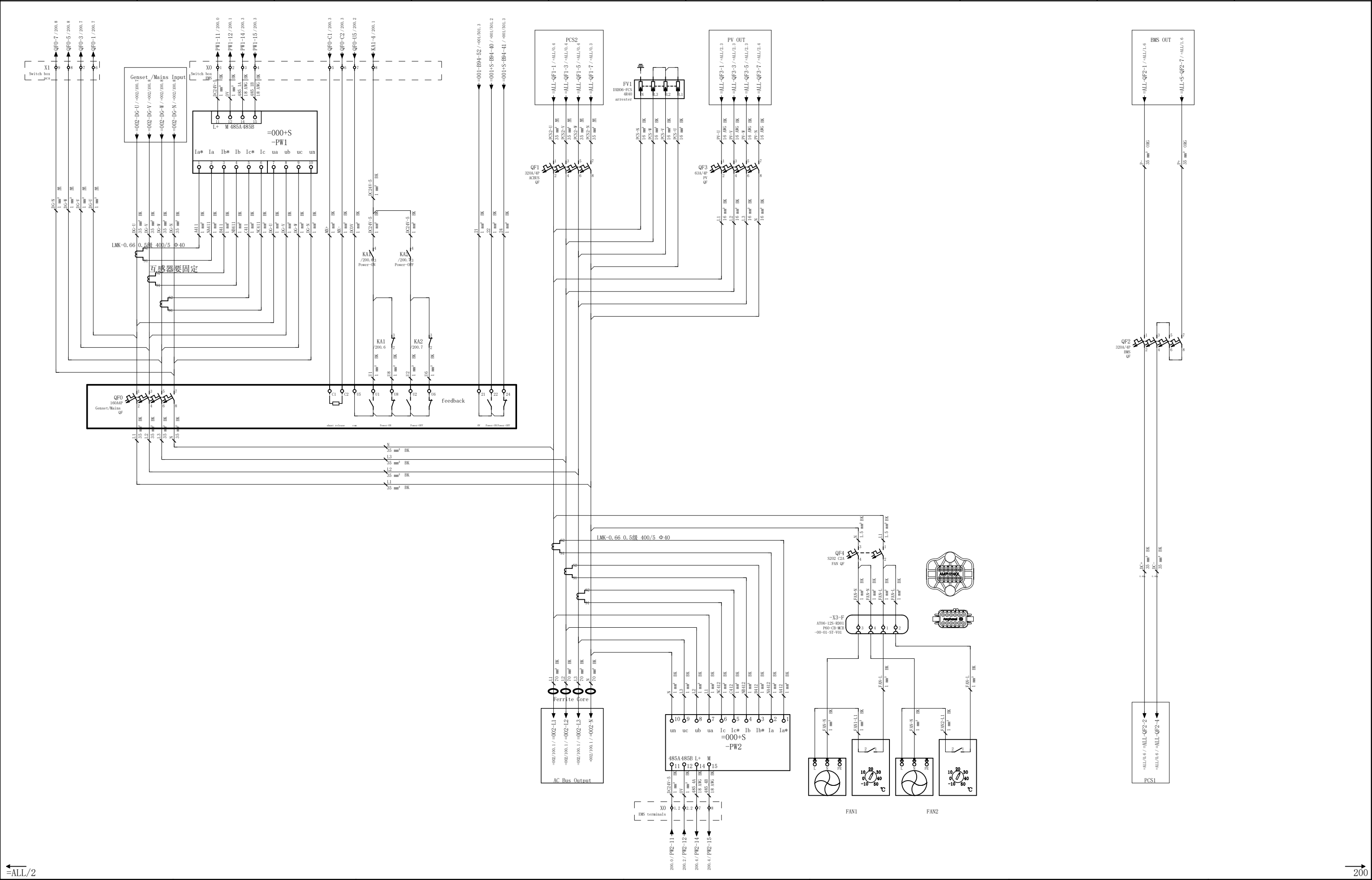
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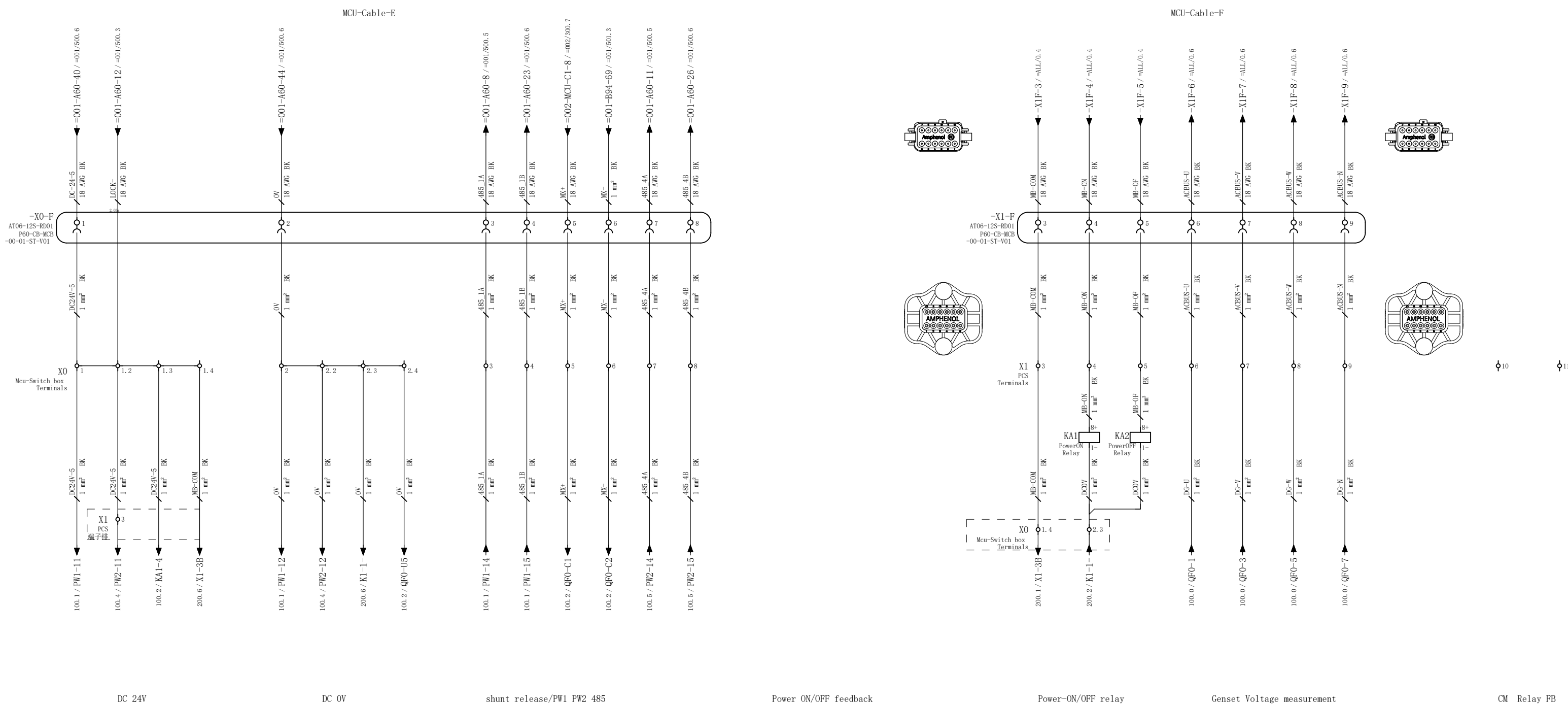
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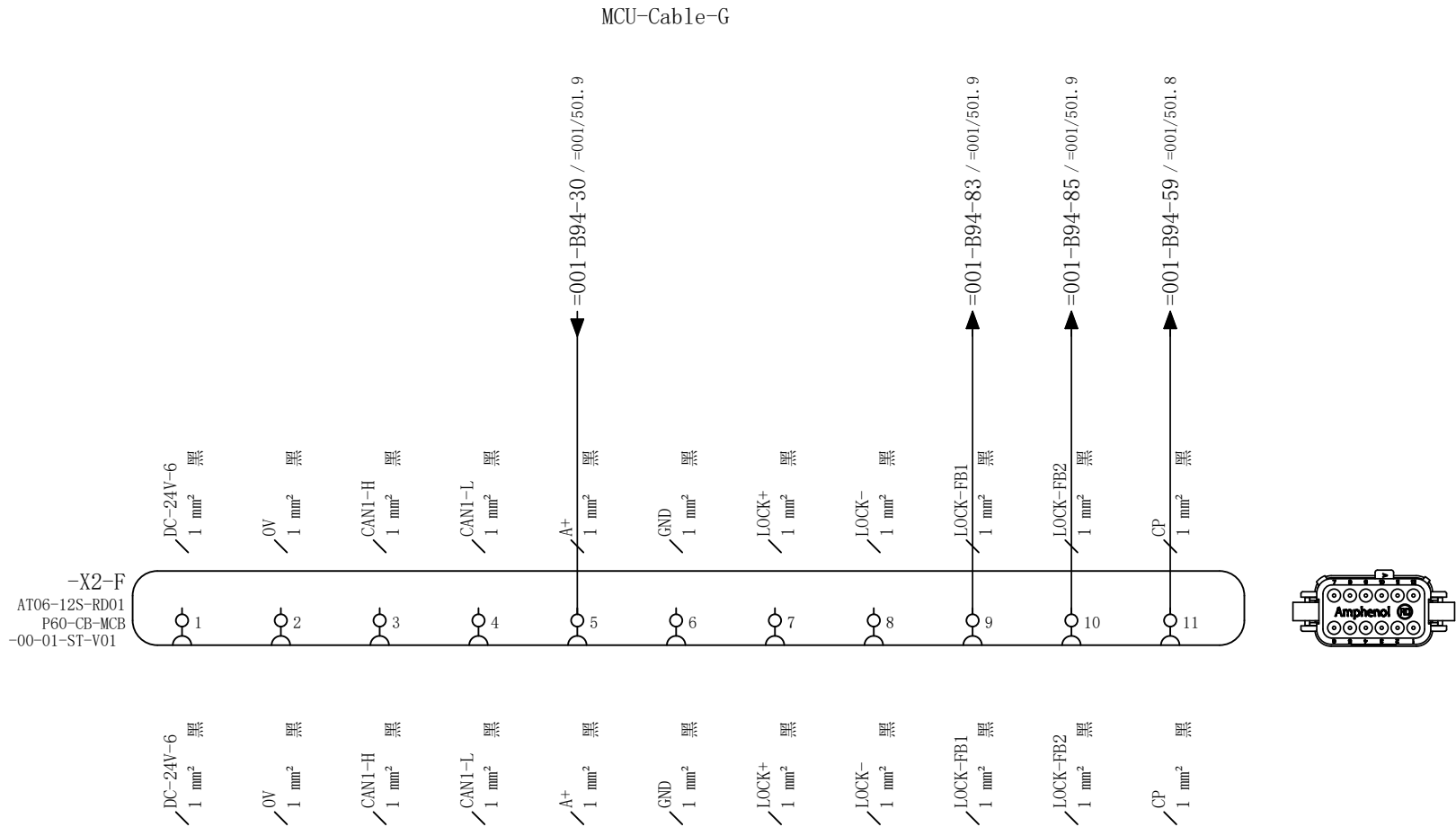




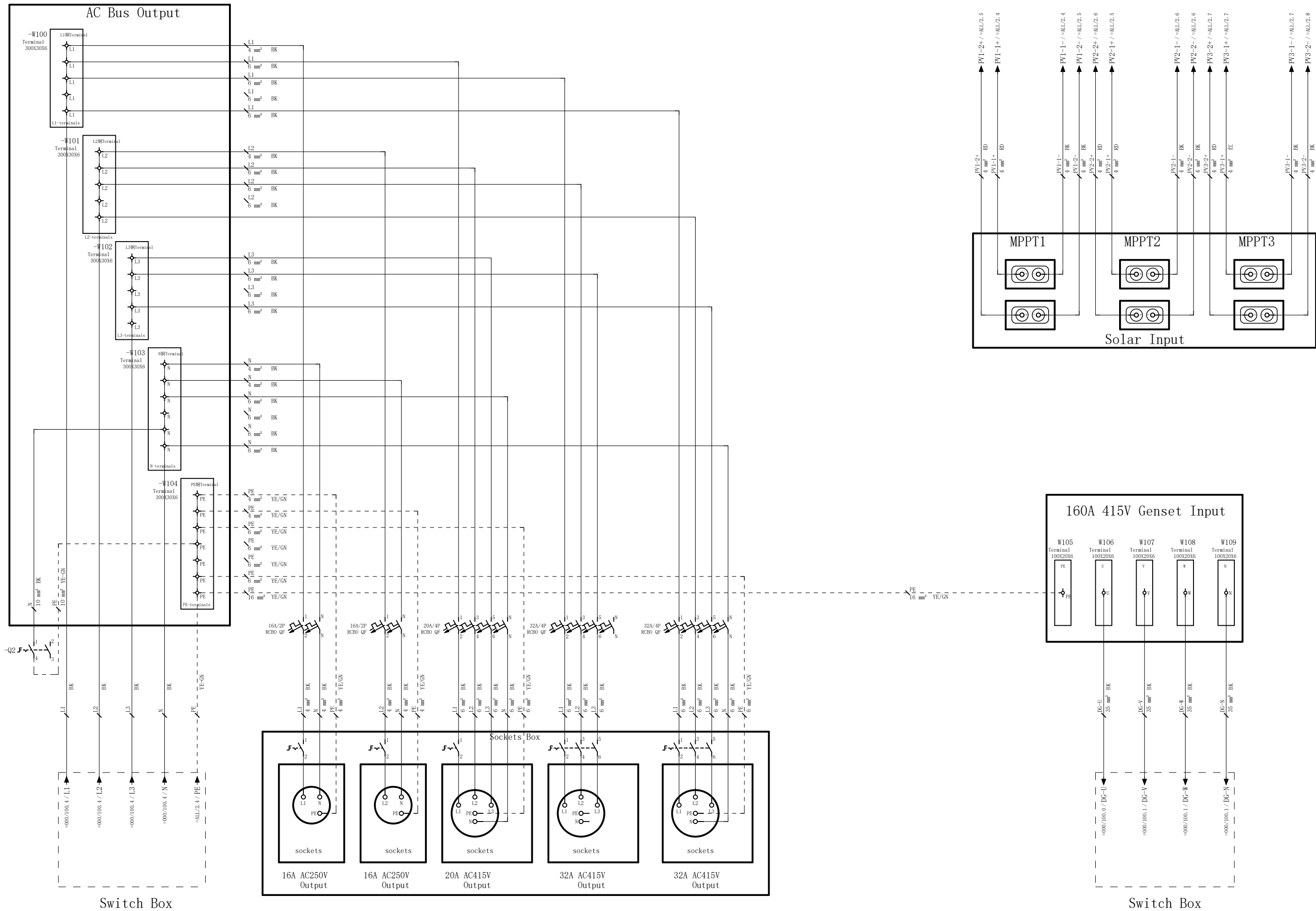


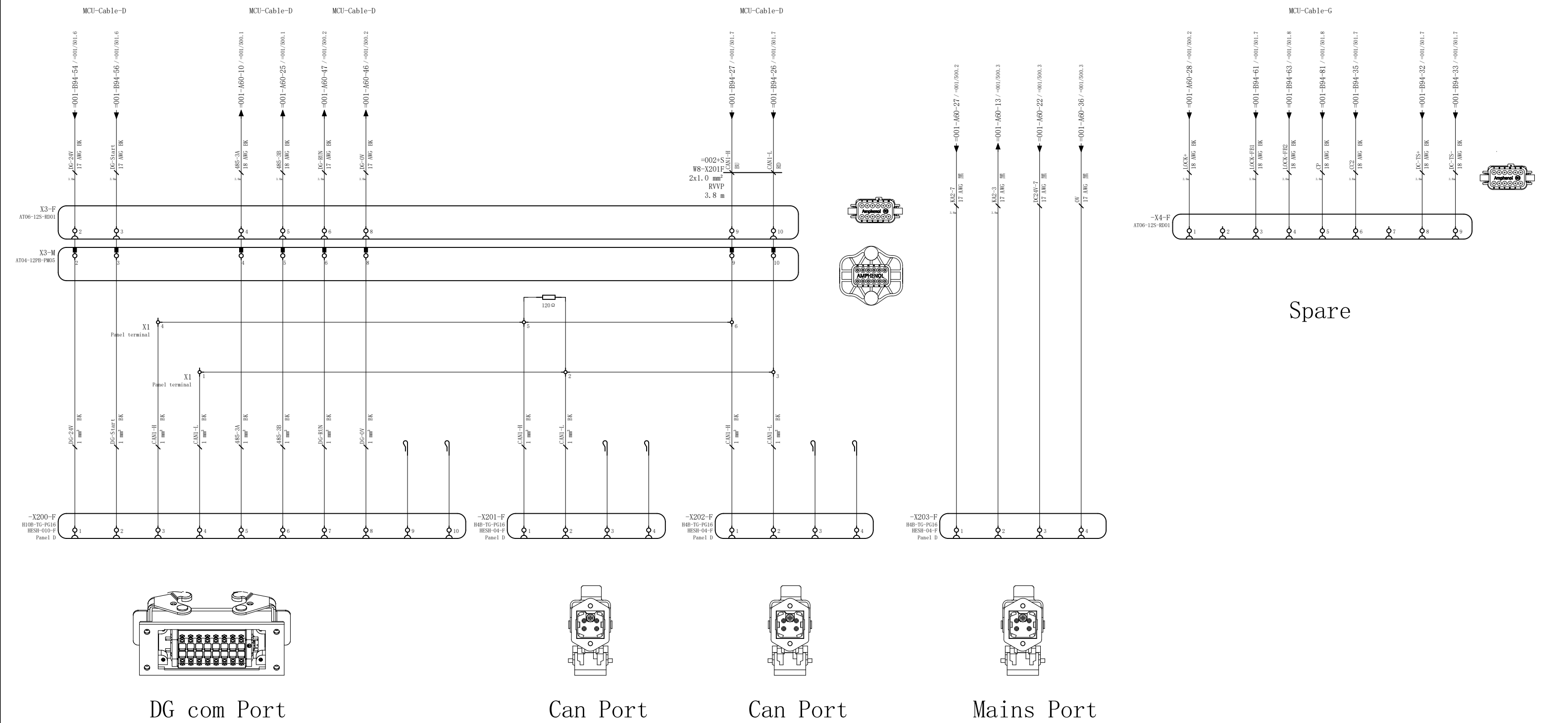


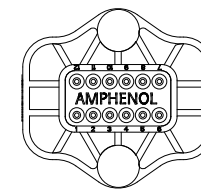
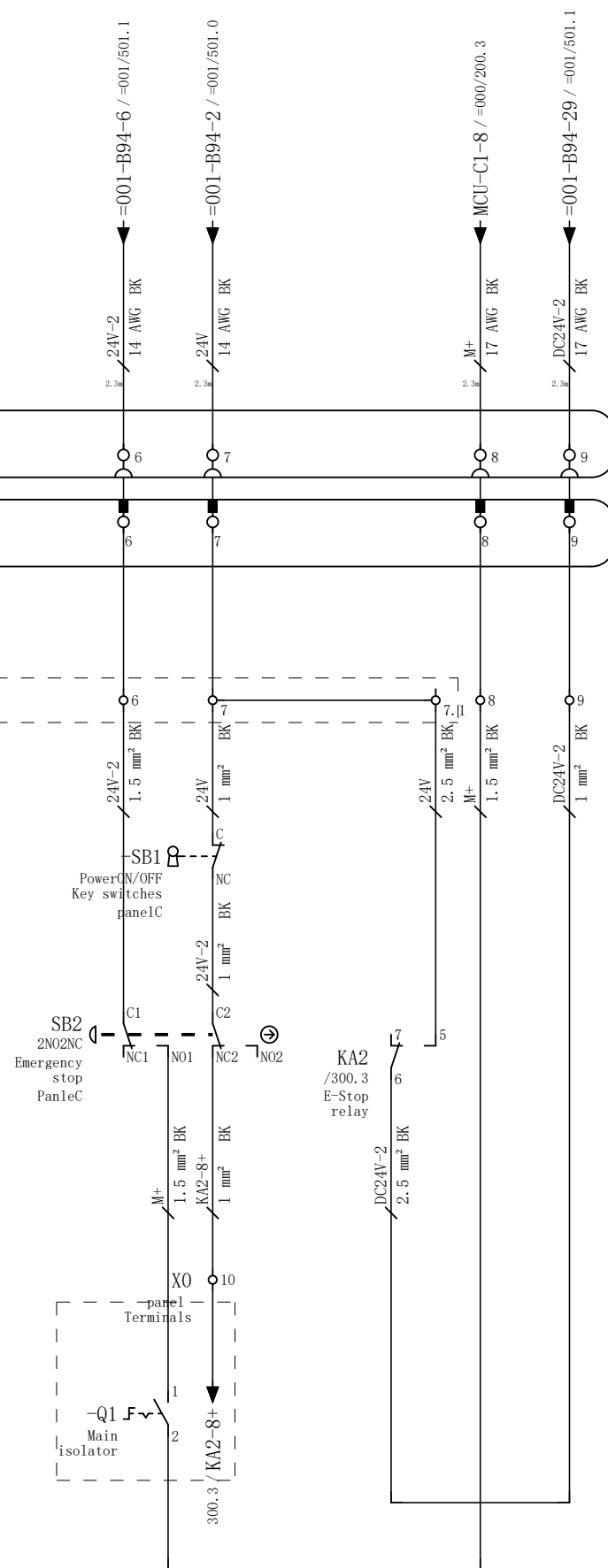
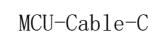




Spare





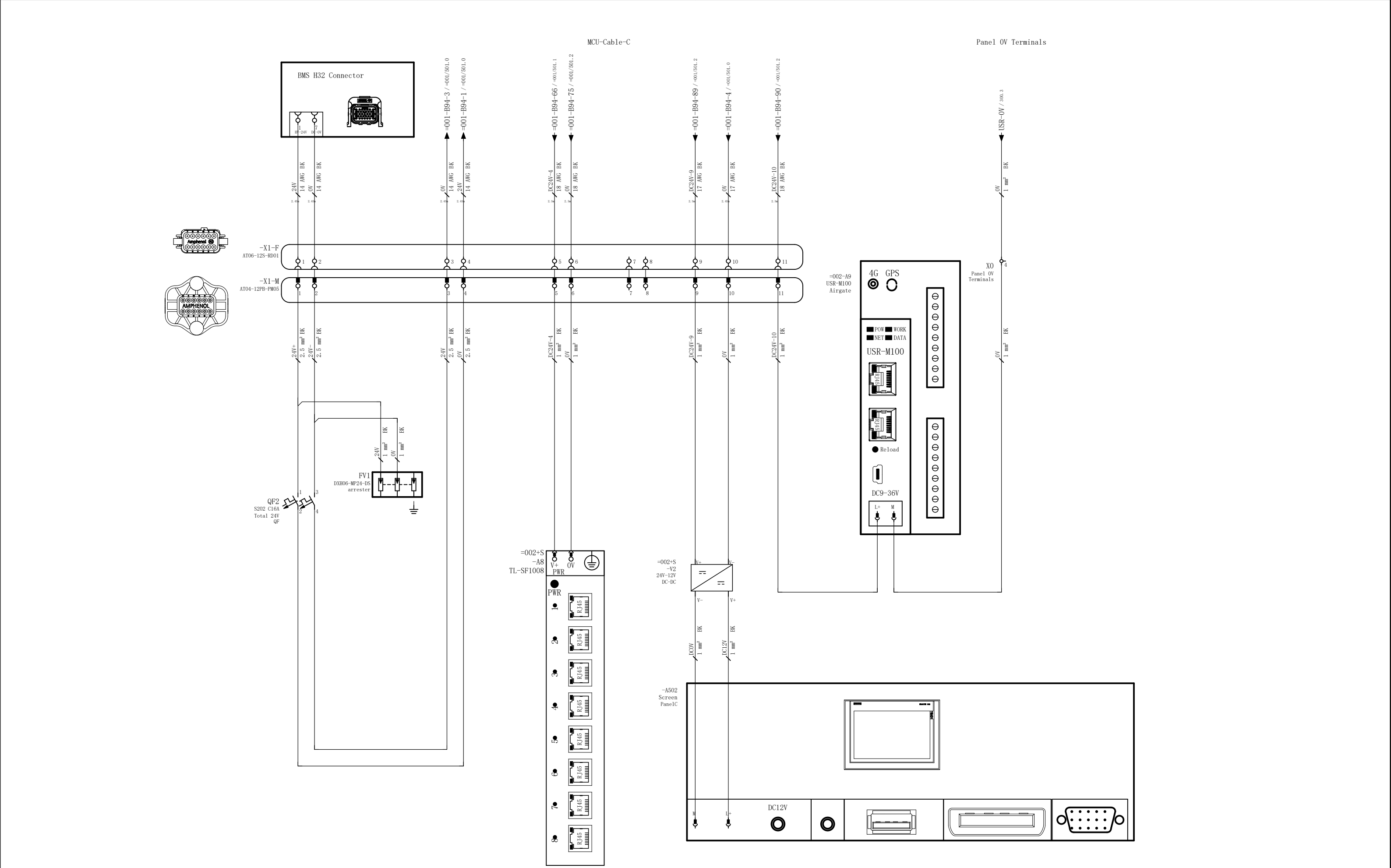


NC □

NO □

C □

RUN indicator



-M1

