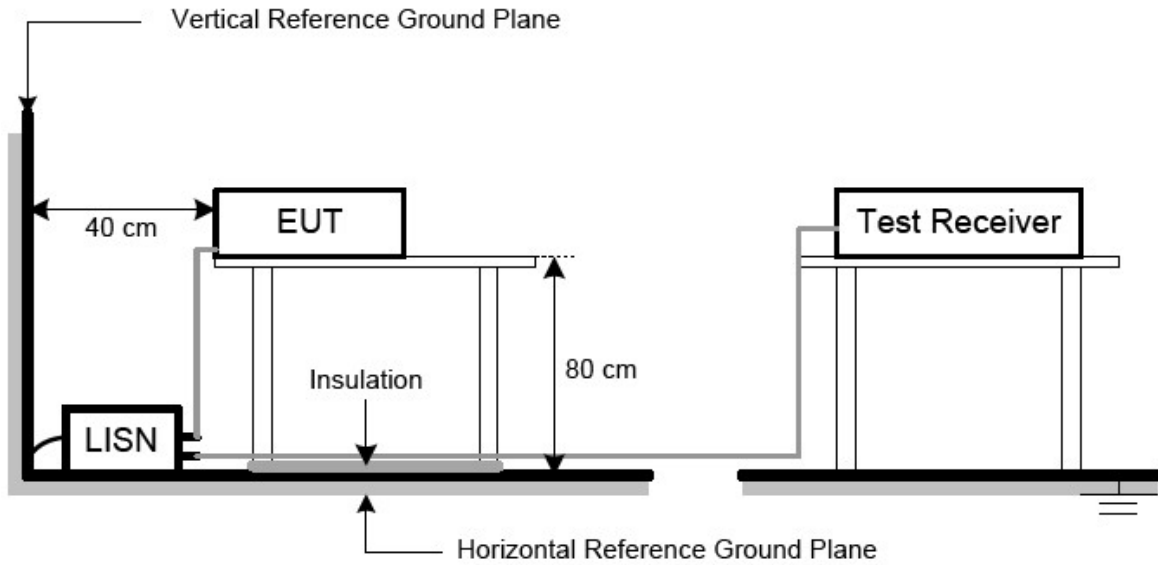
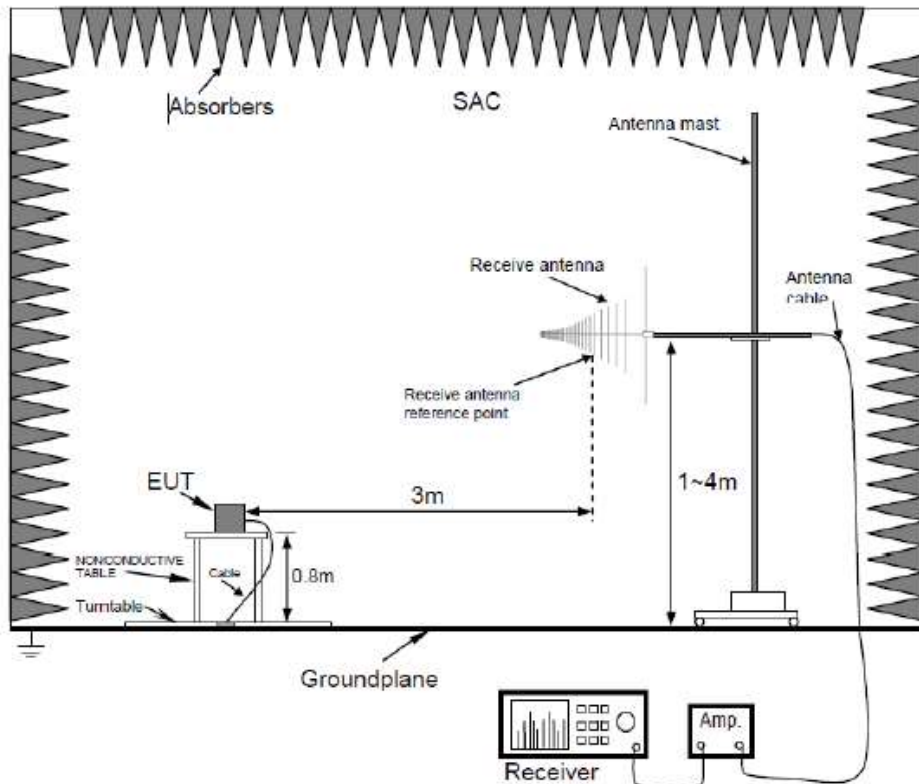


Configuration used for determination 用於特性的配置
EMI 特性 Electro-Magnetic interference characteristics
(1)Conducted Emission



(2)Radiated Emission



MODEL NO: UOHL3240-2410

24V/10A

Conduction Character (傳導特性)

※Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	110Vac
2	I/P Frequency(Hz)(輸入頻率)	60Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備):

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	頻普接收儀	KH3931
2	AC Source(變頻器)	ALL POWER/APG-1005N
3	Character Standard	EN55032 CLASS B

※Character Data(特性數據):

ITEM	QP	AV
Character Result	L line	-11.72dB
	N line	-10.66dB
		-8.4dB

※Character Waveform (特性波形):

File: 電源 Data: #1 Date: 2018/05/04 Time: 下午 03:13:12

Site A9 Phase: **L** Temperature: 25 °C
 Limit: CISPR32 Class B Conduction(QP) Power: AC 110V/60Hz Humidity: 57 %
 EUT: POWER Air Pressure: 983 hpa
 M/N: UOHL 3240-2410
 Note:

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dB	dB		
1		0.1894	40.96	9.75	50.71	64.06	-13.35	QP	
2	*	0.1894	36.82	9.75	46.57	54.06	-7.49	AVG	
3		0.5228	33.42	9.82	43.24	56.00	-12.76	QP	
4		0.5228	25.99	9.82	35.81	46.00	-10.19	AVG	
5		0.6719	34.44	9.84	44.28	56.00	-11.72	QP	
6		0.6719	26.27	9.84	36.11	46.00	-9.89	AVG	
7		19.3155	35.12	10.55	45.67	60.00	-14.33	QP	
8		19.3155	27.30	10.55	37.85	50.00	-12.15	AVG	

File: 電源 Data: #2 Date: 2018/05/04 Time: 下午 03:15:37

Site A9 Phase: **N** Temperature: 25 °C
 Limit: CISPR32 Class B Conduction(QP) Power: AC 110V/60Hz Humidity: 57 %
 EUT: POWER Air Pressure: 983 hpa
 M/N: UOHL 3240-2410
 Note:

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dB	dB		
1		0.8161	35.46	9.88	45.34	56.00	-10.66	QP	
2		0.8161	27.30	9.88	37.18	46.00	-8.82	AVG	
3		2.7804	31.10	10.08	41.18	56.00	-14.82	QP	
4		2.7804	25.99	10.08	36.07	46.00	-9.93	AVG	
5		18.9988	36.40	10.67	47.07	60.00	-12.93	QP	
6	*	18.9988	30.93	10.67	41.60	50.00	-8.40	AVG	

MODEL NO: UOHL3240-2410

24V/10A

Conduction Character (傳導特性)

※Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備):

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	頻普接收儀	KH3931
2	AC Source(變頻器)	ALL POWER/APG-1005N
3	Character Standard	EN55032 CLASS B

※Character Data(特性數據):

ITEM	QP	AV
Character Result	L line	-10.02dB
	N line	-10.32dB

※Character Waveform (特性波形):

Conducted Emission Measurement
File: 源源 Data: #3 Date: 2018/05/04 Time: 下午 03:18:45
Site A9
Limit: CISPR32 Class B Conduction(QP)
EUT: POWER
M/N: UOHL 3240-2410
Note: FULL SYSTEM

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dB	Over dB	Detector	Comment
1	0.8294	34.82	9.88	44.70	56.00	-11.30	QP	
2	0.8294	24.97	9.88	34.85	46.00	-11.15	AVG	
3	20.0165	39.42	10.56	49.98	60.00	-10.02	QP	
4 *	20.0165	35.26	10.56	45.82	50.00	-4.18	AVG	

Conducted Emission Measurement
File: 源源 Data: #4 Date: 2018/05/04 Time: 下午 03:20:43
Site A9
Limit: CISPR32 Class B Conduction(QP)
EUT: POWER
M/N: UOHL 3240-2410
Note: FULL SYSTEM

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dB	Over dB	Detector	Comment
1	0.8207	35.80	9.88	45.68	56.00	-10.32	QP	
2	0.8207	27.49	9.88	37.37	46.00	-8.63	AVG	
3	19.0084	38.00	10.67	48.67	60.00	-11.33	QP	
4 *	19.0084	32.40	10.67	43.07	50.00	-6.93	AVG	

Radiation Character (輻射特性)

※Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	100Vac
2	I/P Frequency(Hz)(輸入頻率)	60Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備):

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	頻普接收儀	外面實驗室
2	AC Source(變頻器)	外面實驗室
3	Character Standard	CISPR32 CLASS B

※Character Data(特性數據):

ITEM		peak	QP
Character Result	V line	-3.76dB	/
	H line	-4.29dB	/

※Character Waveform (特性波形):

Radiated Emission Measurement
 File: 捷源 Data: #28 Date: 2018/05/04 Time: 下午 02:14:25
 Site A6 Polarization: **Vertical** Temperature: 20 °C
 Limit: CISPR32 ClassB 3M Radiation Power: AC 110V/60Hz Humidity: 57 %
 EUT: POWER Distance: 3m RBW: 100 KHz Air Pressure: 983 hpa
 M/N: UOHL 3240-2410 VBW: 1000 KHz Sweep Time: 300 ms
 Note: FULL SYSTEM

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBm	dB	cm	degree	
1	!	62.6700	42.80	-8.67	34.13	40.00	-5.87	peak		
2	!	145.0200	44.53	-8.35	36.18	40.00	-3.82	peak		
3	*	151.2300	44.37	-8.13	36.24	40.00	-3.76	peak		
4		209.0100	44.12	-10.15	33.97	40.00	-6.03	peak		

Radiated Emission Measurement
 File: 捷源 Data: #29 Date: 2018/05/04 Time: 下午 02:15:25
 Site A6 Polarization: **Horizontal** Temperature: 20 °C
 Limit: CISPR32 ClassB 3M Radiation Power: AC 110V/60Hz Humidity: 57 %
 EUT: POWER Distance: 3m RBW: 100 KHz Air Pressure: 983 hpa
 M/N: UOHL 3240-2410 VBW: 1000 KHz Sweep Time: 300 ms
 Note: FULL SYSTEM

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBm	dB	cm	degree	
1	!	147.4500	43.52	-8.26	35.26	40.00	-4.74	peak		
2	*	150.9600	43.84	-8.13	35.71	40.00	-4.29	peak		
3	!	154.4700	42.89	-8.03	34.86	40.00	-5.14	peak		

MODEL NO: UOHL3240-2410

24V/10A

Radiation Character (輻射特性)

※Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備):

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	頻普接收儀	外面實驗室
2	AC Source(變頻器)	外面實驗室
3	Character Standard	CISPR32 CLASS B

※Character Data(特性數據):

ITEM		peak	QP
Character Result	V line	-6.15dB	/
	H line	-6.48dB	/

※Character Waveform (特性波形):

Radiated Emission Measurement (Vertical Polarization)

Site A6
Limit: CISPR32 ClassB 3M Radiation
EUT: POWER
M/N: UOHL 3240-2410
Note: FULL SYSTEM

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBm	Over dB	Antenna Detector	Table Height cm	Table Degree	Comment
1	63.4800	38.98	-8.80	28.18	40.00	-11.82	peak			
2 *	163.1100	41.84	-7.99	33.85	40.00	-6.15	peak			
3	235.2000	41.16	-8.94	32.22	47.00	-14.78	peak			

Radiated Emission Measurement (Horizontal Polarization)

Site A6
Limit: CISPR32 ClassB 3M Radiation
EUT: POWER
M/N: UOHL 3240-2410
Note: FULL SYSTEM

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBm	Over dB	Antenna Detector	Table Height cm	Table Degree	Comment
1 *	163.1100	41.51	-7.99	33.52	40.00	-6.48	peak			
2	235.2000	41.81	-8.94	32.87	47.00	-14.13	peak			

EFT Character (電子脈衝群干擾特性)

※Character Condition(特性條件) :

1	I/P Voltage(Vac)(輸入電壓)	110Vac/230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz / 60Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備) :

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	BEST EMC SOLUTION	EMCSOSIN / EFT-S4
2	AC Source(變頻器)	ALL POWER/APG-1005N

※Character Standard(特性標準) :

1	Character Standard	IEC 61000-4-4
EFT Character		
Spec.	2KV	
O/P	Full Load	
I/P	110Vac/60Hz & 230Vac/50Hz	
Burst	15ms/300ms	
Character Duration	1 min	
Pulse Rate:	5KHz/100KHz	

※Character Data(特性數據) 產品類別: Class I

Power Line	Pulse Polarity	Character Voltage	Required Criteria	Complied To Criteria(A,B,C)	Judgement
L	"+" / "-"	2KV	Criteria B	Criteria A	PASS
N	"+" / "-"	2KV	Criteria B	Criteria A	PASS
L-N	"+" / "-"	2KV	Criteria B	Criteria A	PASS
PE	"+" / "-"	2KV	Criteria B	Criteria A	PASS
L-PE	"+" / "-"	2KV	Criteria B	Criteria A	PASS
N-PE	"+" / "-"	2KV	Criteria B	Criteria A	PASS
L-N-PE	"+" / "-"	2KV	Criteria B	Criteria A	PASS

※Character Performance & Result :

- Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B: The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C: Temporary loss of function is allowed, provided the function self recoverable or can be restored by the operation of controls

ESD Character (靜電干擾特性)

※Character Condition(特性條件) :

1	I/P Voltage(Vac)(輸入電壓)	100Vac/230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz / 60Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備) :

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	EMC-PARTNER	PRIMA /ESD61002TB
2	AC Source(變頻器)	ALL POWER/APG-1005N

※Character Standard(特性標準) :

1	Character Standard	IEC 61000-4-2:2001	
ESD Character			
Spec.	Air: ±15.0KV	Contact: ±8.0KV	
O/P	Full Load		
I/P	100Vac/60Hz & 230Vac/50Hz		
Description of Observation:	NO Abnormal Issue		
Performance Criterion:	Manufacturer (According to Standard/Manufacturer)		

※Character Data(特性數據) :

Item	Amount of Discharge	Voltage	Required Criteria	Complied To Criteria(A,B,C)	Judgement
Air Discharge	Mini 10/Point	±15.0KV	Criteria B	Criteria A	PASS
Contact Discharge	Mini 25/Point	±8.0KV	Criteria B	Criteria A	PASS
Indirect Discharge(HCP)	Mini 25/Point	N/A			
Indirect Discharge(VCP Front)	Mini 25/Point	N/A			
Indirect Discharge(VCP Left)	Mini 25/Point	N/A			
Indirect Discharge(VCP Back)	Mini 25/Point	N/A			
Indirect Discharge(VCP Right)	Mini 25/Point	N/A			

※Character Performance & Result :

- Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B: The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C: Temporary loss of function is allowed, provided the function self recoverable or can be restored by the operation of controls

Light Surge Character (雷擊特性)

※Character Condition(特性條件) :

1	I/P Voltage(Vac)(輸入電壓)	110Vac/230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz / 60Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※Character Equipment(特性設備) :

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	EMC-PARTNER	Prima/ SUG61005TAX
2	AC Source(變頻器)	ALL POWER/APG-1005N

※Character Standard(特性標準) :

1	Character Standard	IEC 61000-4-5:1995+ A1:2001
SURGE Character		
Spec.	Line to Line ±2KV ; Line to FG ±4KV	
O/P	Full load	
I/P	110Vac/60Hz & 230Vac/50Hz	
REP.RATE	60 sec	
Description of Observation:	NO Abnormal Issue	
Performance Criterion:	Manufacturer (According to Standard/Manufacturer)	

※Character Data(特性數據) 產品類別: Class I

Character Point	Character Voltage	Polarity	Phase Angle				Required Criteria	Complied To Criteria(A,B,C)	Judgement
			0°	90°	180°	270°			
L-N	2KV	+	OK	OK	OK	OK	Criteria B	Criteria A	PASS
		-	OK	OK	OK	OK	Criteria B	Criteria A	PASS
L-GND	4KV	+	OK	OK	OK	OK	Criteria B	Criteria A	PASS
		-	OK	OK	OK	OK	Criteria B	Criteria A	PASS
N-GND	4KV	+	OK	OK	OK	OK	Criteria B	Criteria A	PASS
		-	OK	OK	OK	OK	Criteria B	Criteria A	PASS
L,N-GND	4KV	+	OK	OK	OK	OK	Criteria B	Criteria A	PASS
		-	OK	OK	OK	OK	Criteria B	Criteria A	PASS

Class II Type : Character L-N Only.

※Character Performance & Result :

- Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B: The apparatus continues to operate as intended after te test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, whe the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C: Temporary loss of function is allowed, provided the function self recoverable or can be restored by the operation of controls

DIPS Character(周波跌落特性)

※Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	100~230Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz/60Hz
3	Output load(輸出負載)	Full load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS
6		

※Character Parameters(特性參數):

DIPS Character	
Condition :	According EN61000-4-11 (full load and high line)
	Voltage Dips 100% Redaction 10ms/20ms ; 60% Redaction 200ms/240ms ; 30% Redaction 500 ms/600ms Voltage Interruption : ≥95% ; Redaction 5000ms/6000ms

※Character Data(特性數據):

Character Level	% UT	Reduction (%)	Duration (Periods)	Perform Criteria	Results	Judgement
0		100	0.5/1	B	Criteria B	PASS
40		60	10/12	B	Criteria B	PASS
70		30	25/30	C	Criteria B	PASS
0		100	250/300	C	Criteria A	PASS

※Character Performance & Result :

- Criteria A:** The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- Criteria B:** The apparatus continues to operate as intended after test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- Criteria C:** Temporary loss of function is allowed, provided the function self recoverable or can be restored by the operation of controls