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Evaluation Method 评价方法

Circuit used for determination 特性電路圖

Circuit 1 特性回路1

Line&Load Regulation And Temperature Chafaile Character (輸入&負荷及溫度變動特性)

Over-Voltage Protection (過電壓保護特性)

Over-Current Protection (過電流保護特性)

Dynamic ripple Character(動態負載特性)

Efficiency Character(效率特性)

Input&Load Change Character(輸入&負荷變動特性)

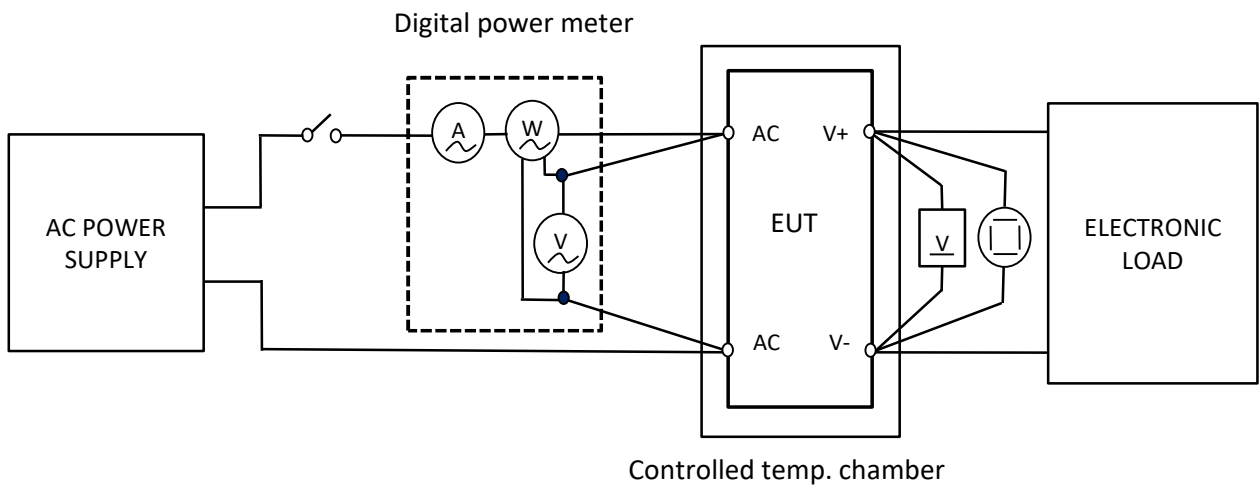
Turn On Delay(開機爬升延遲時間)

Hold Up Time Character (保持時間)

Low Vac Shut Off (輸入欠壓關斷特性)

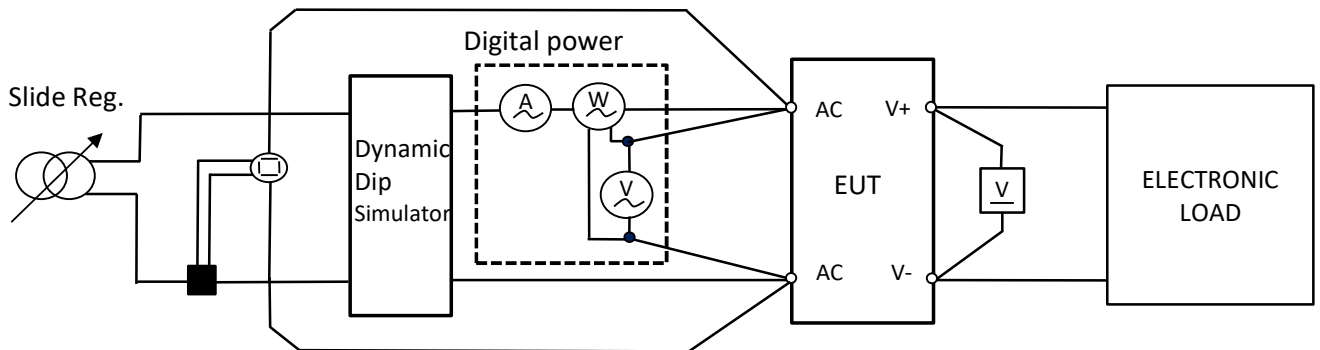
Over Shoot(過沖特性)

Under Shoot(下沖特性)

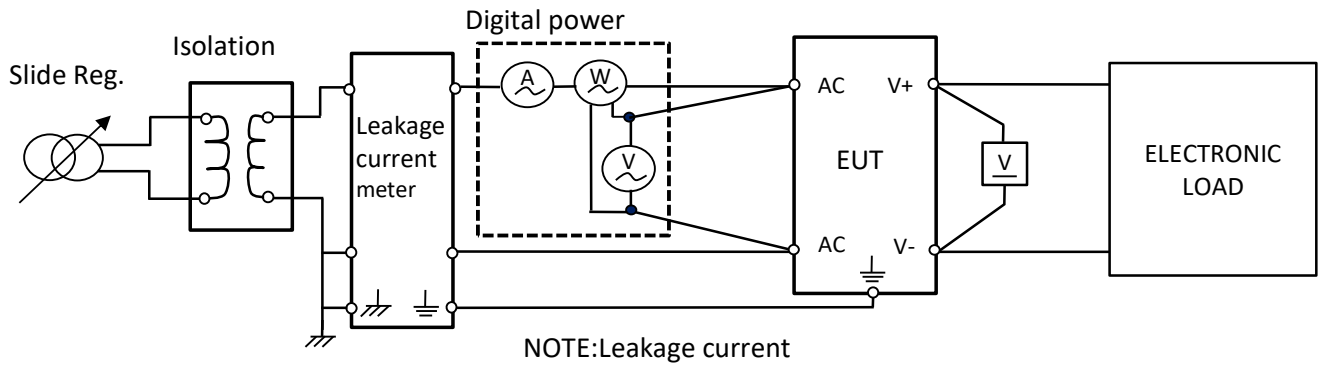


Circuit 2 特性回路2

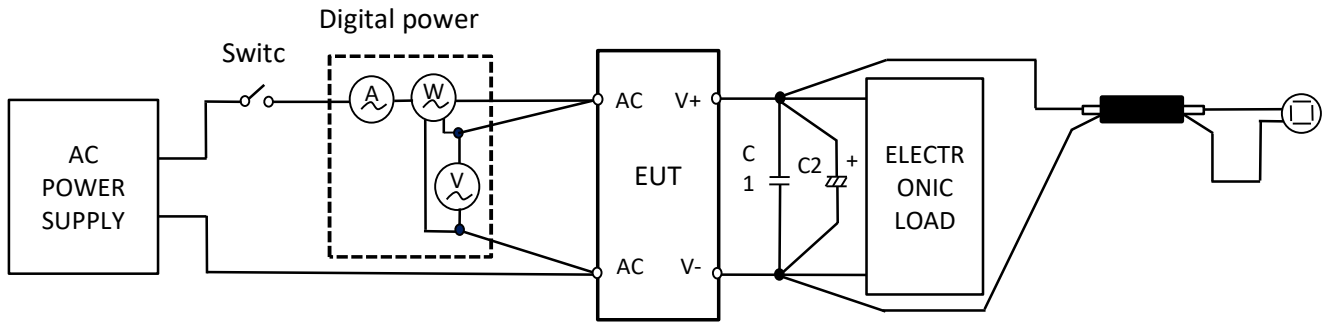
Inrush Current (浪涌電流)



Circuit 3 特性回路3
Leak Current (漏電流特性)



Circuit 4 特性回路4
Ripple And Noise Character(紋波特性)



C1 : 0.1 μ F CERAMICS CAPACITOR
 C2 : 22 μ 50V ALUMINUM CAPACITOR
 THE BANDWIDTH OF OSCILLOSCOPE IS SET WITH 20MHz

1.ELECTRICAL FUNCTION Character(電氣特性)

1-1.Line&Load Regulation And Temperature Chafaile Character (輸入&負荷及溫度變動特性)

※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	0%,25%,50%,75%,100% Of Full Load
4	Regulation(調整率)	Load Regulation: $\leq 0.32\%$; Line Regulation $\leq 0.2\%$
5	Ambient Temp.(°C)(環境溫度)	25°C
6	Sample Size(取樣數)	1PCS

Output voltage	24.0V
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※ Character Data(特性數據):

O/P \ I/P	90Vac/63Hz	100Vac/60Hz	240Vac/50Hz	264Vac/47Hz	Line Regulation $\leq 0.2\%$
0%	24.51V	24.51V	24.51V	24.51V	0.00%
25%	24.5V	24.5V	24.5V	24.5V	0.00%
50%	24.49V	24.49V	24.49V	24.49V	0.00%
75%	24.49V	24.49V	24.49V	24.49V	0.00%
100%	24.49V	24.49V	24.49V	24.49V	0.00%
Load Regulation: $\leq 0.32\%$	0.08%	0.08%	0.08%	0.08%	

1.ELECTRICAL FUNCTION Character(電氣特性)

1-1.Line&Load Regulation And Temperature Chafaile Character (輸入&負荷及溫度變動特性)

※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	0%,25%,50%,75%,100% Of Full Load
4	Regulation(調整率)	Load Regulation: $\leq 0.8\%$; Line Regulation $\leq 0.8\%$
5	Ambient Temp.(°C)(環境溫度)	25°C
6	Sample Size(取樣數)	1PCS

Output voltage	5.0V
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※ Character Data(特性數據):

O/P \ I/P	90Vac/63Hz	100Vac/60Hz	240Vac/50Hz	264Vac/47Hz	Line Regulation $\leq 0.8\%$
0%	5.13V	5.13V	5.13V	5.13V	0.00%
25%	5.13V	5.13V	5.13V	5.13V	0.00%
50%	5.12V	5.12V	5.12V	5.12V	0.00%
75%	5.12V	5.12V	5.12V	5.12V	0.00%
100%	5.11V	5.11V	5.11V	5.11V	0.00%
Load Regulation: $\leq 0.8\%$	0.40%	0.40%	0.40%	0.40%	

1-2.1 Ripple And Noise Character (紋波與雜訊)

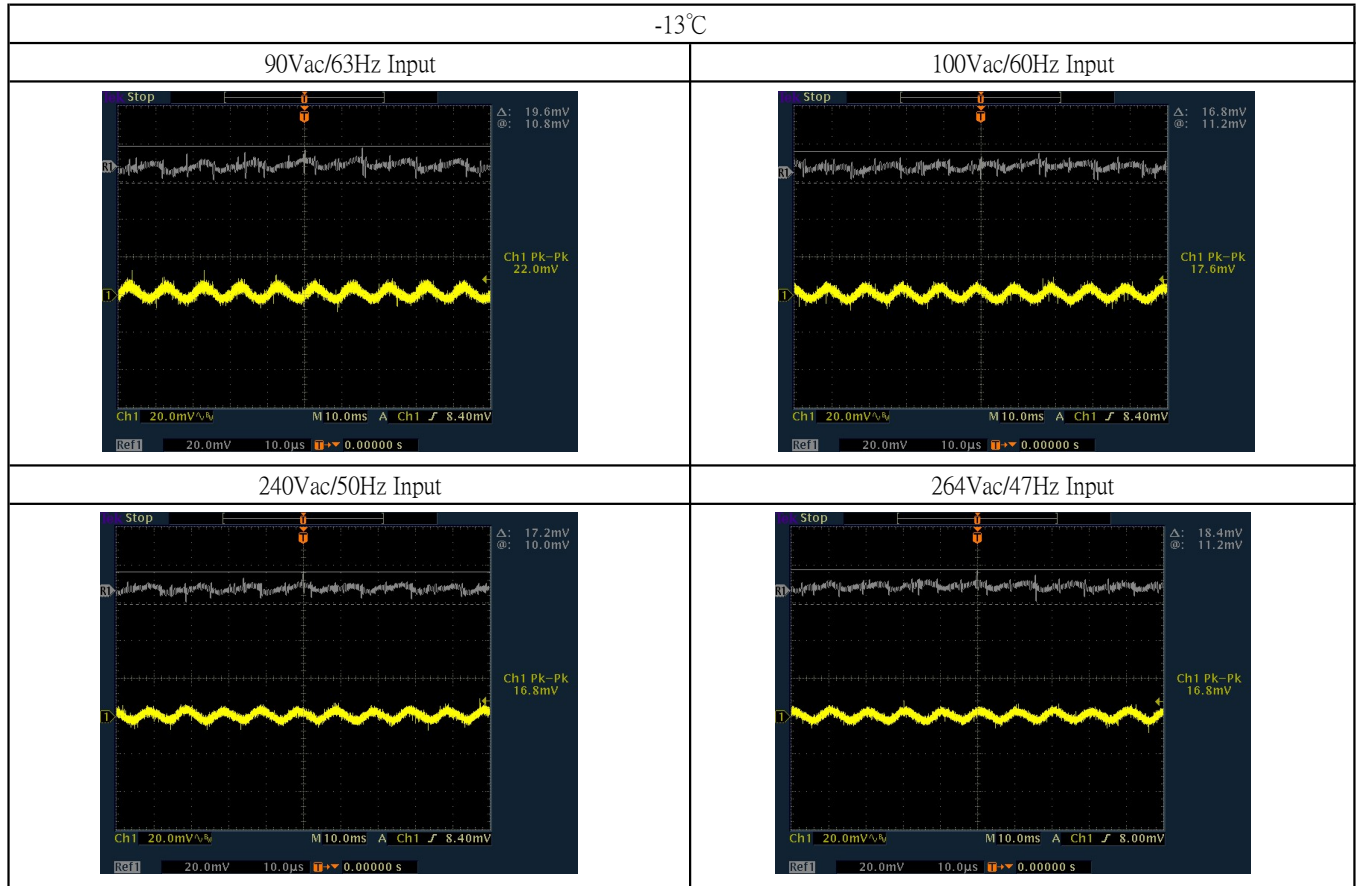
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	-13°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		100Vac/60Hz		240Vac/50Hz		264Vac/47Hz	
ITEM	Ripple	Noise	Ripple	Noise	Ripple	Noise	Ripple	Noise
-13°C	19.6mV	22.0mV	16.8mV	17.6mV	17.2mV	16.8mV	18.4mV	16.8mV

※ Character Waveform (特性波形):



1-2.3 Ripple And Noise Character (紋波與雜訊)

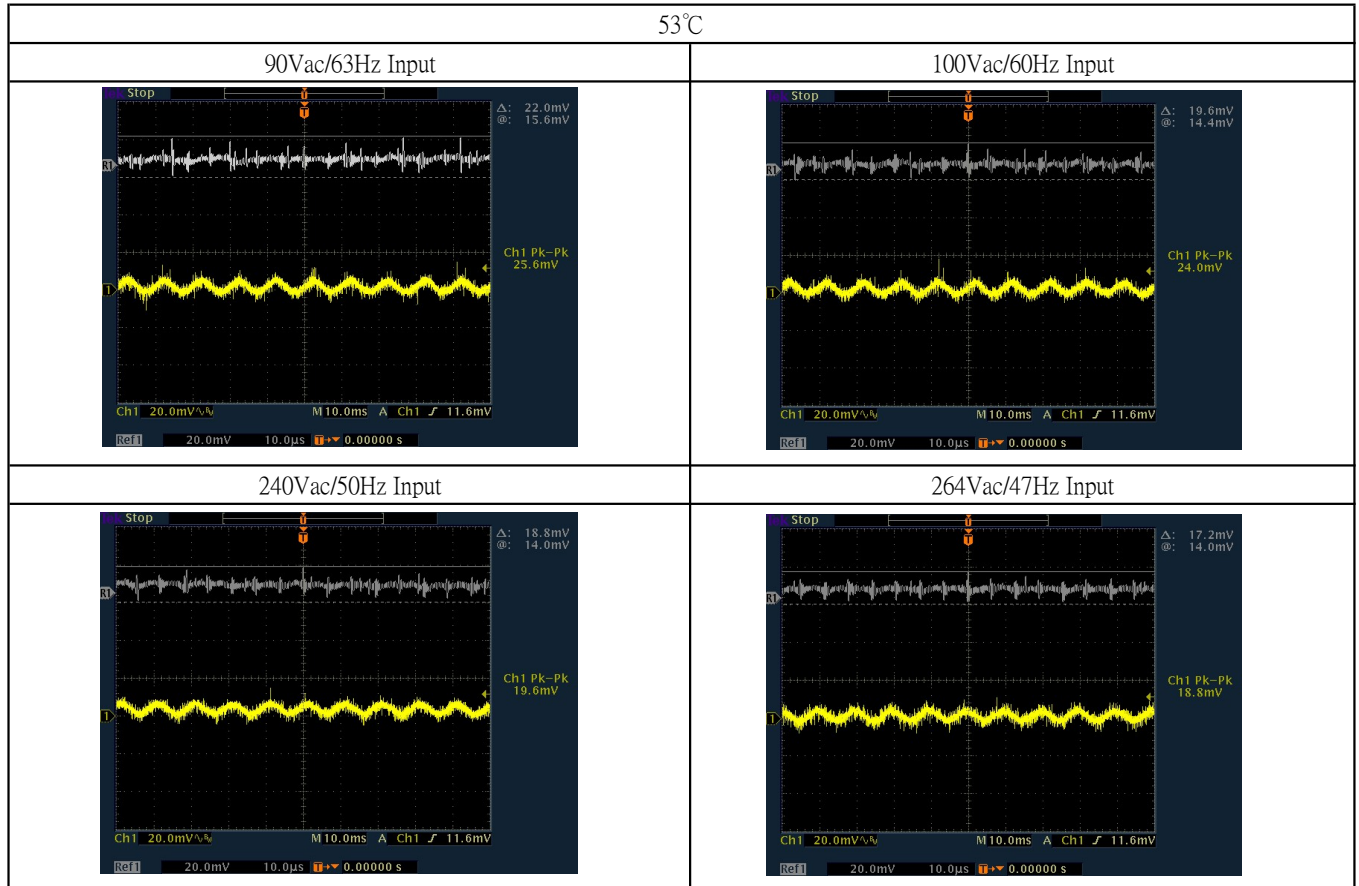
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	53°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		100Vac/60Hz		240Vac/50Hz		265Vac/47Hz	
ITEM	Ripple	Noise	Ripple	Noise	Ripple	Noise	Ripple	Noise
53°C	22.0mV	25.6mV	19.6mV	24.0mV	18.8mV	19.6mV	17.2mV	18.8mV

※ Character Waveform (特性波形):



1-2.1 Ripple And Noise Character (紋波與雜訊)

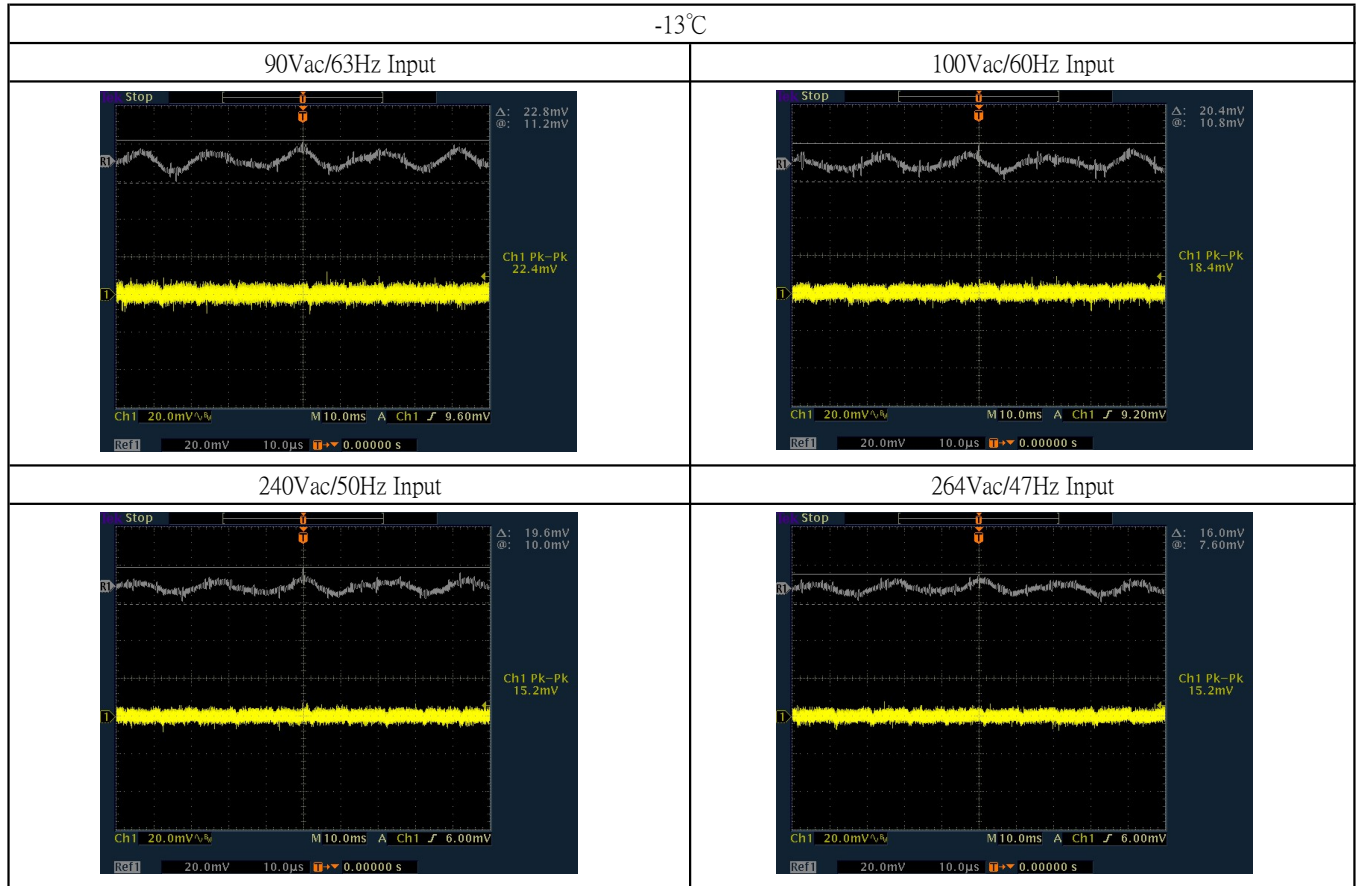
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	-13°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		100Vac/60Hz		240Vac/50Hz		264Vac/47Hz	
ITEM	Ripple	Noise	Ripple	Noise	Ripple	Noise	Ripple	Noise
-13°C	22.8mV	22.4mV	20.4mV	18.4mV	19.6mV	15.2mV	16.0mV	15.2mV

※ Character Waveform (特性波形):



1-2.3 Ripple And Noise Character (紋波與雜訊)

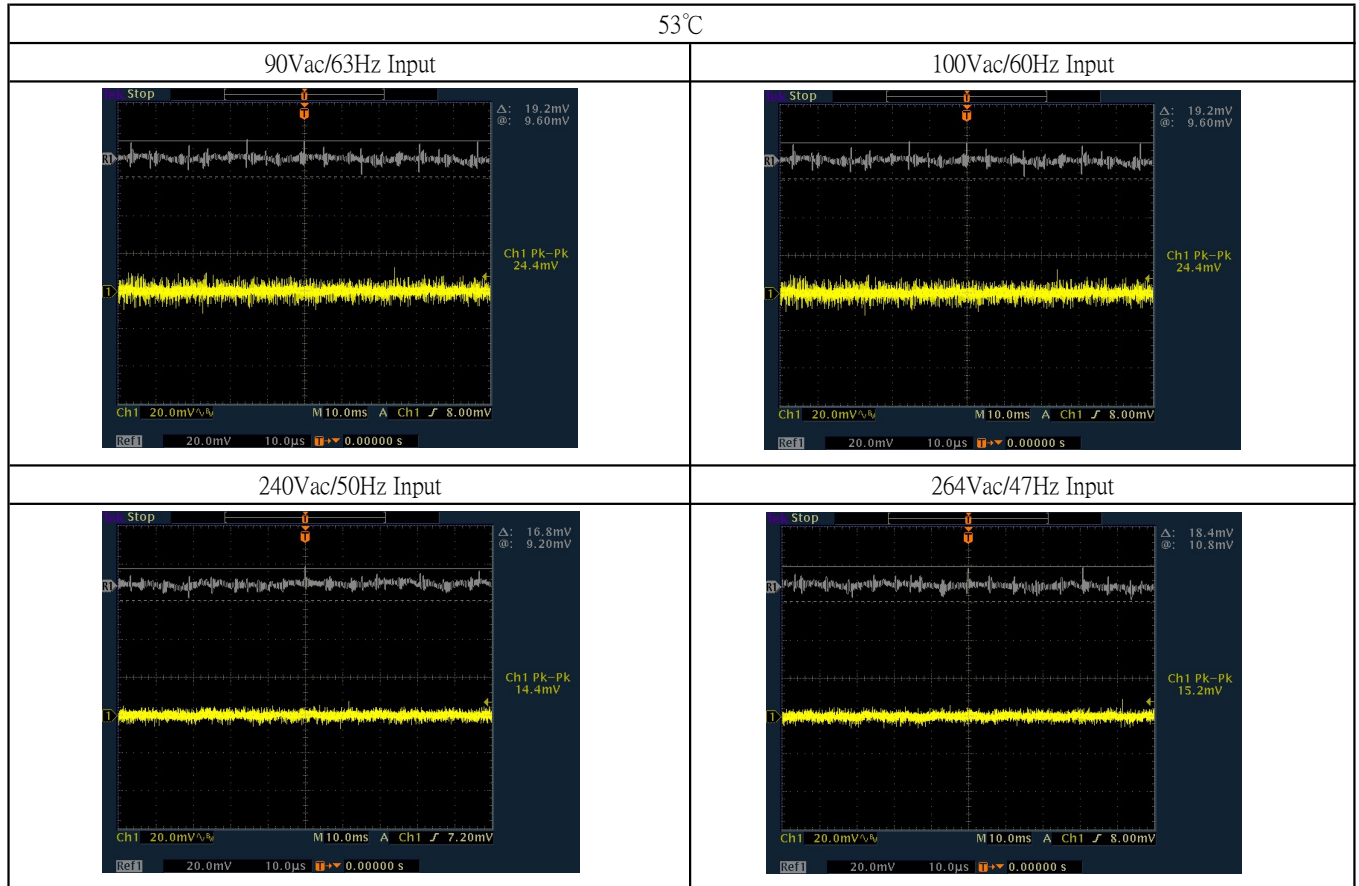
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	Full Load
4	Ambient Temp.(°C)(環境溫度)	53°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		100Vac/60Hz		240Vac/50Hz		265Vac/47Hz	
ITEM	Ripple	Noise	Ripple	Noise	Ripple	Noise	Ripple	Noise
53°C	23.6mV	24.4mV	19.2mV	24.4mV	16.8mV	14.4mV	18.4mV	15.2mV

※ Character Waveform (特性波形):



1-3.Over-Voltage Protection(過電壓保護特性)

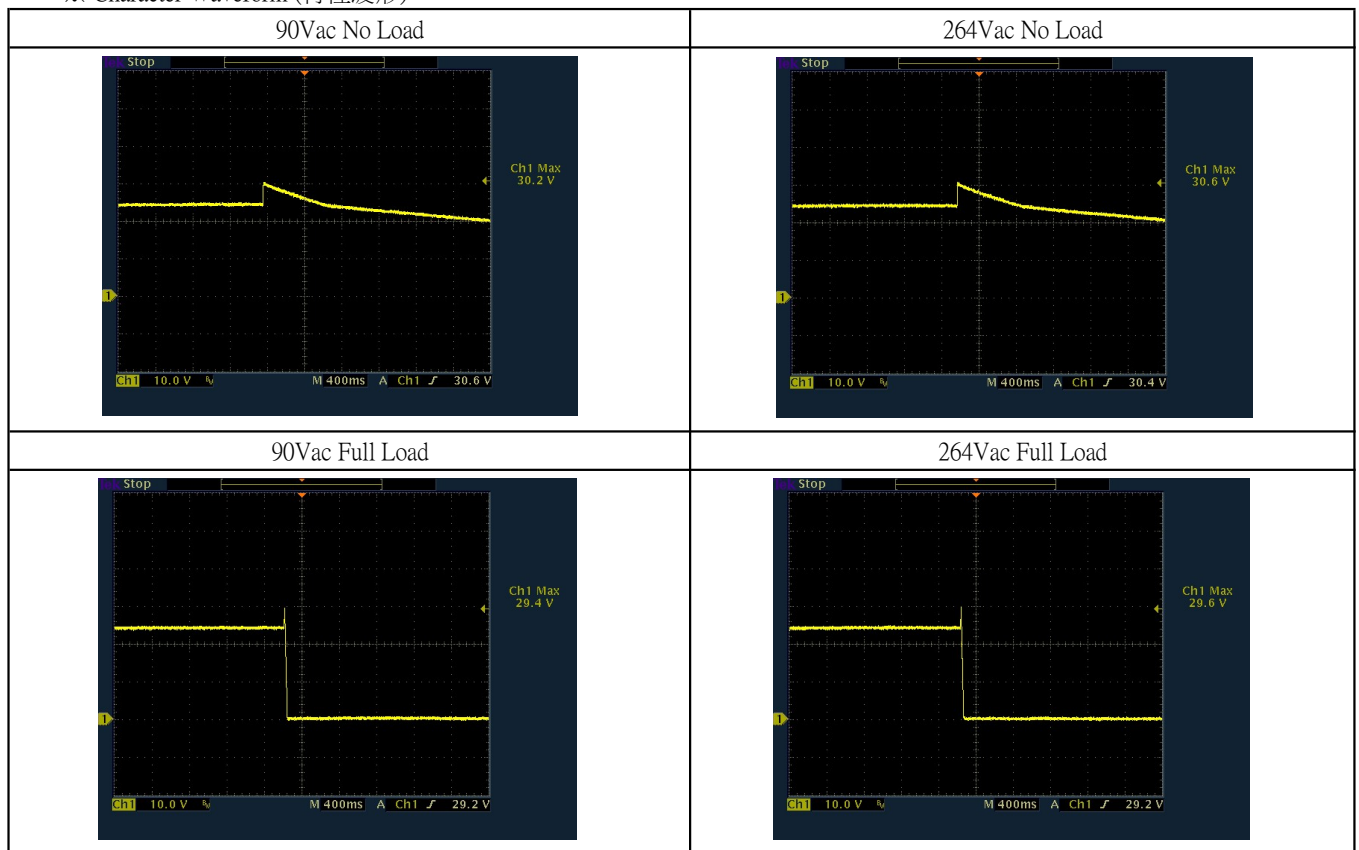
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz /63Hz
3	Output Load(輸出負載)	No/Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

O/P	No Load		Full Load	
I/P	90Vac/63Hz	264Vac/47Hz	90Vac/63Hz	264Vac/47Hz
Character Result	30.2V	30.6V	29.4V	29.6V

※ Character Waveform (特性波形):



1-3.Over-Voltage Protection(過電壓保護特性)

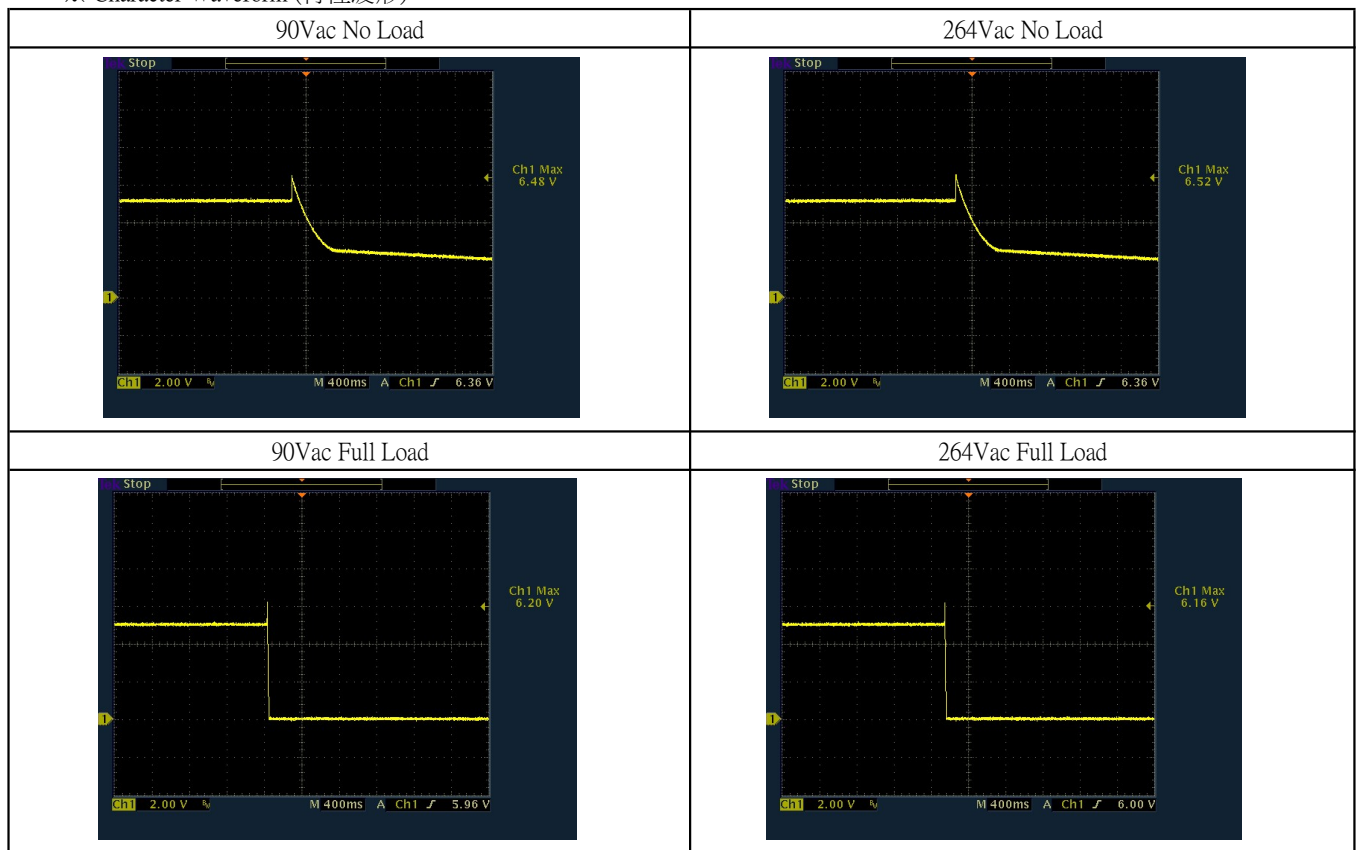
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz /63Hz
3	Output Load(輸出負載)	No/Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

O/P	No Load		Full Load	
I/P	90Vac/63Hz	264Vac/47Hz	90Vac/63Hz	264Vac/47Hz
Character Result	6.48V	6.52V	6.2V	6.16V

※ Character Waveform (特性波形):



MODEL NO: UOHL3240-2410

24V/10A

1-4. Over-Current Protection(過電流保護特性)

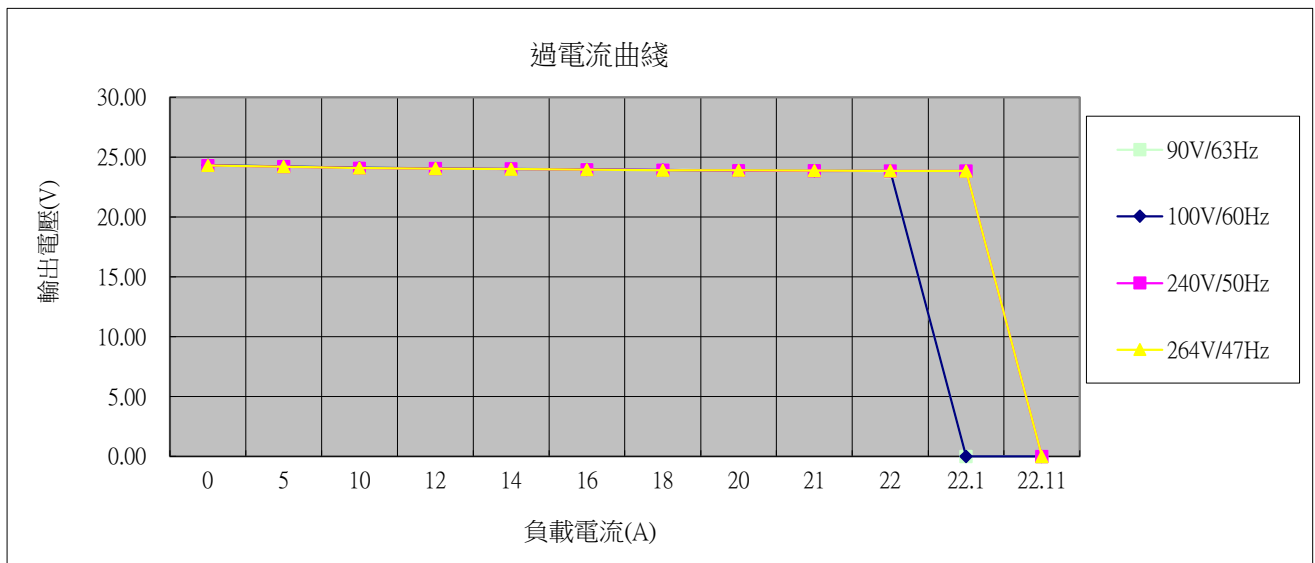
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
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 Data(特性數據):

I/P	90V/63Hz	100V/60Hz	240V/50Hz	264V/47Hz
O.C.P點	22.1A	22.1A	22.11A	22.11A

I/P	90V/63Hz											
Voltage(V)	24.33	24.22	24.11	24.07	24.03	23.98	23.94	24	23.87	23.78	0	0
Current(A)	0	5	10	12	14	16	18	20	21	22	22.1	22.11
I/P	100V/60Hz											
Voltage(V)	24.33	24.22	24.11	24.06	24.02	23.97	23.93	24	23.86	23.83	0	0
Current(A)	0	5	10	12	14	16	18	20	21	22	22.1	22.11
I/P	240V/50Hz											
Voltage(V)	24.31	24.20	24.09	24.05	24.01	23.96	23.92	24	24	23.84	23.83	0
Current(A)	0	5	10	12	14	16	18	20	21	22	22.1	22.11
I/P	264V/47Hz											
Voltage(V)	24.31	24.20	24.08	24.04	24.00	23.95	23.91	24	24	23.85	23.83	0
Current(A)	0	5	10	12	14	16	18	20	21	22	22.1	22.11



MODEL NO: UOHL3240-2410

24V/10A

1-4. Over-Current Protection(過電流保護特性)

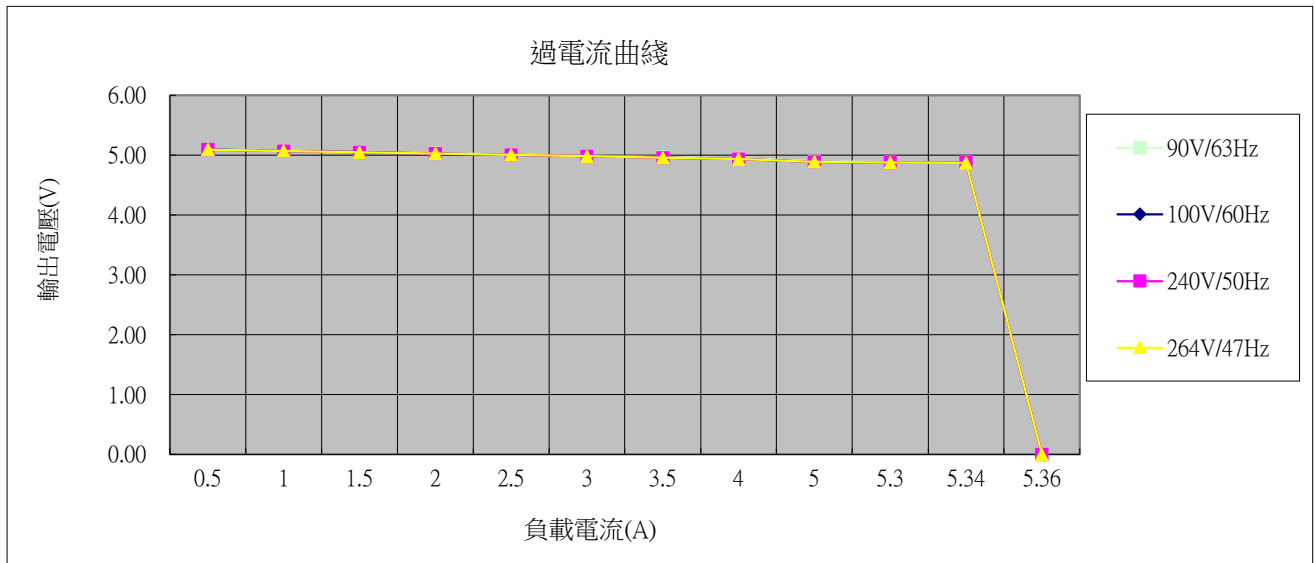
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
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 Data(特性數據):

I/P	90V/63Hz	100V/60Hz	240V/50Hz	264V/47Hz
O.C.P點	5.36A	4.36A	5.36A	5.36A

I/P	90V/63Hz											
Voltage(V)	5.10	5.07	5.05	5.03	5.01	4.99	4.97	5	4.897	4.882	4.88	0
Current(A)	0.5	1	1.5	2	2.5	3	3.5	4	5	5.3	5.34	5.36
I/P	100V/60Hz											
Voltage(V)	5.09	5.07	5.05	5.03	5.00	4.98	4.96	5	4.888	4.873	4.87	0
Current(A)	0.5	1	1.5	2	2.5	3	3.5	4	5	5.3	5.34	5.36
I/P	240V/50Hz											
Voltage(V)	5.09	5.07	5.05	5.03	5.00	4.98	4.96	5	5	4.875	4.872	0
Current(A)	0.5	1	1.5	2	2.5	3	3.5	4	5	5.3	5.34	5.36
I/P	264V/47Hz											
Voltage(V)	5.09	5.07	5.05	5.03	5.00	4.98	4.96	5	5	4.874	4.871	0
Current(A)	0.5	1	1.5	2	2.5	3	3.5	4	5	5.3	5.34	5.36



MODEL NO: UOHL3240-2410

24V/10A

1-5. Dynamic ripple Character(動態負載特性)

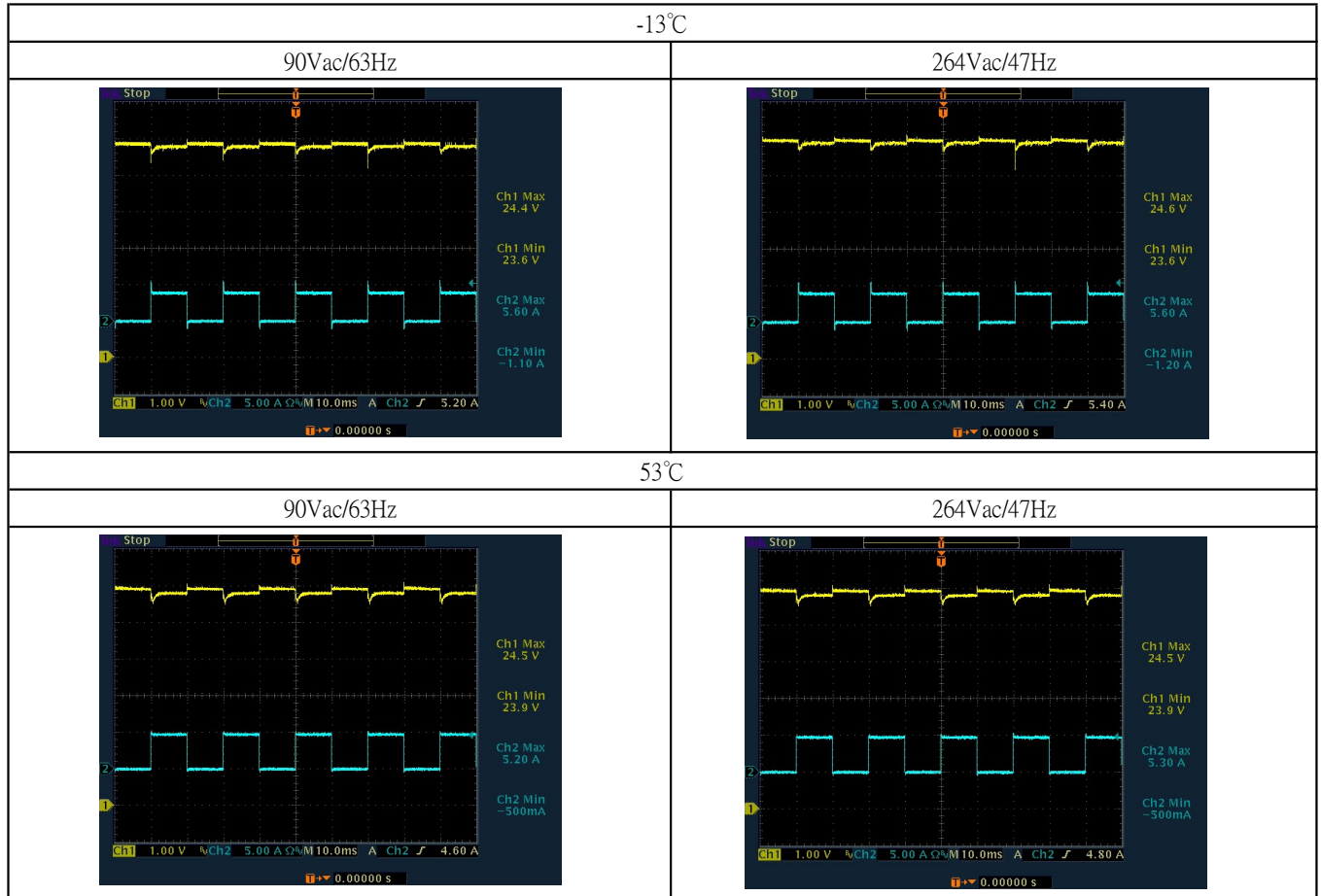
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz /63Hz
3	Output Load(輸出負載)	0%-50% Full Load,TH=0.1ms,TL=0.1ms,Slew rate=1A/us
4	Ambient Temp.(°C)(環境溫度)	-13°C/53°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		264Vac/47Hz	
	Max	Min	Max	Min
O/P				
-13°C	24.4V	23.6V	24.6V	23.6V
53°C	24.5V	23.9V	24.5V	23.9V

※ Character Waveform (特性波形):



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24V/10A

1-5. Dynamic ripple Character(動態負載特性)

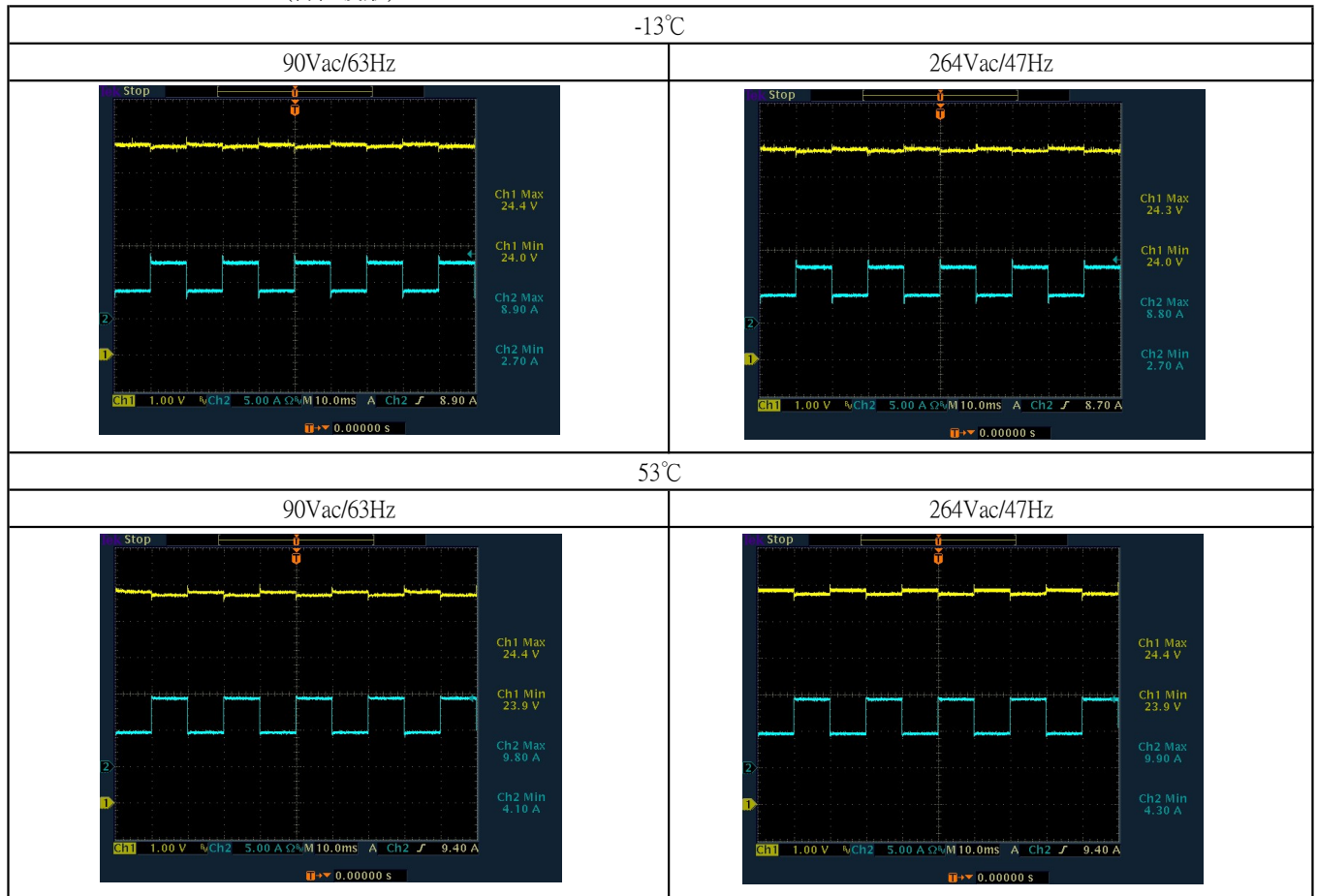
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz /63Hz
3	Output Load(輸出負載)	50%-100% Full Load, TH=0.1ms, TL=0.1ms, Slew rate=1A/us
4	Ambient Temp.(°C)(環境溫度)	-13°C/53°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		264Vac/47Hz	
O/P	Max	Min	Max	Min
-13°C	24.4V	24.0V	24.3V	24.0V
53°C	24.4V	23.9V	24.4V	23.9V

※ Character Waveform (特性波形):



1-5. Dynamic ripple Character(動態負載特性)

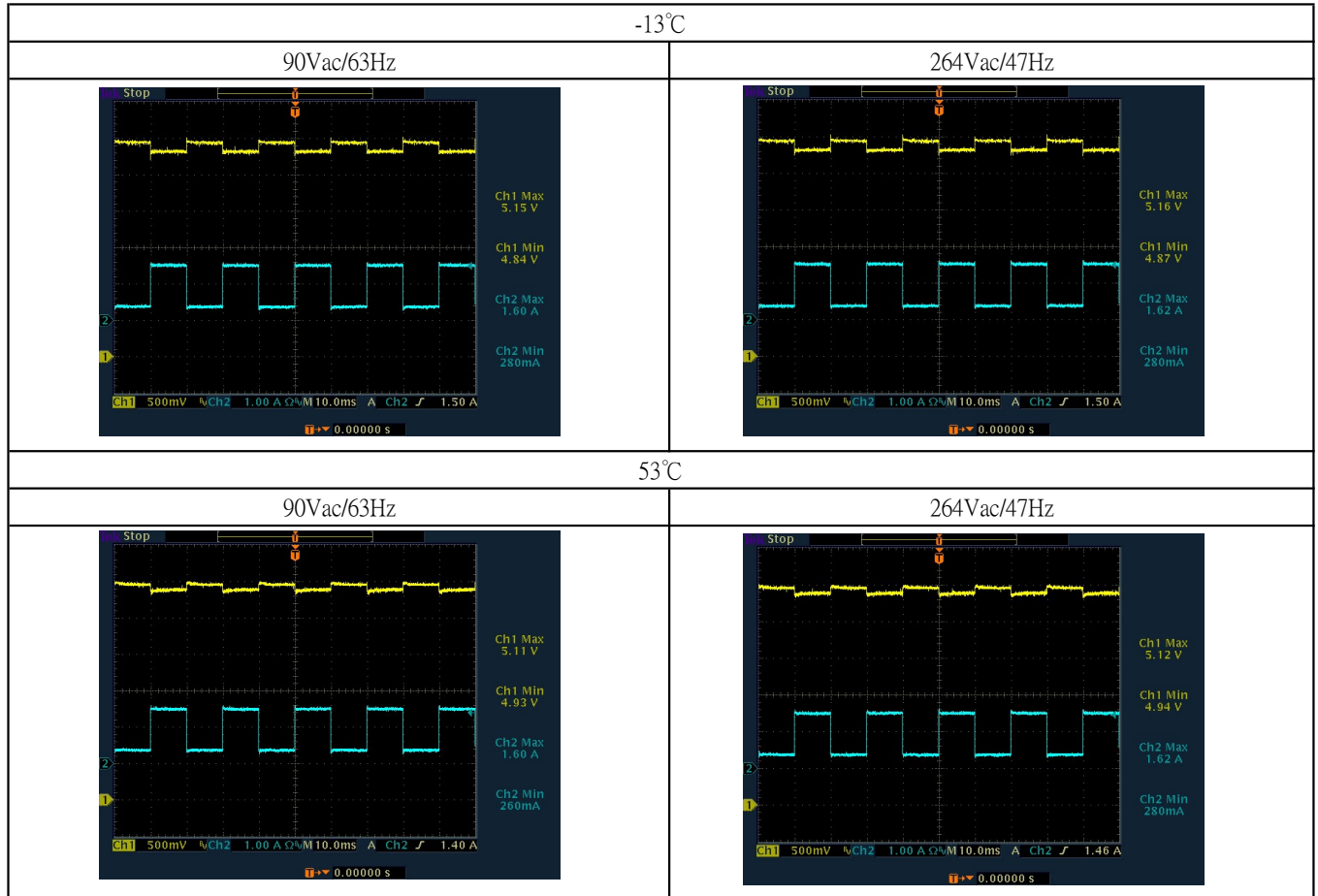
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz /63Hz
3	Output Load(輸出負載)	20%-80% Full Load, TH=0.1ms, TL=0.1ms, Slew rate=0.1A/us
4	Ambient Temp.(°C)(環境溫度)	-13°C/53°C
5	Sample Size(取樣數)	1PCS

※ Character Data(特性數據):

I/P	90Vac/63Hz		264Vac/47Hz	
	Max	Min	Max	Min
O/P				
-13°C	5.15V	4.84V	5.16V	4.87V
53°C	5.11V	4.93V	5.12V	4.94V

※ Character Waveform (特性波形):



1-6.Efficiency Character(效率特性)

※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	100Vac/200Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz / 60Hz
3	Output Load(輸出負載)	25%,50%,75%,100% of Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS
6	Output Load(輸出負載)	10.0A

※ Character Data(特性數據):

使用線材	N/A
------	-----

Efficiency								Stand by consumption	
Load		25% 50% 75% 100%						0%	
I/P		100Vac/60Hz			200Vac/50Hz			Input 100V/60Hz	200V/50HZ
O/P Load	Pin (W)	Pout (W)	Efficiency (%)	Pin (W)	Pout (W)	Efficiency (%)	5.447W	5.381W	
25%	2.5A	70.21	60.69	86.44%	69.21	60.69			87.68%
50%	5.0A	135.78	121.22	89.27%	133.34	121.20			90.90%
75%	7.5A	203.31	181.58	89.31%	198.27	181.57			91.58%
100%	10.0A	271.62	241.81	89.03%	263.97	241.76			91.59%
Average				88.51%			90.43%		

1-7.Input&Load Change Character(輸入&負荷變動特性)

※ Character Condition(特性條件) :

1	I/P Voltage(Vac)(輸入電壓)	90Vac~264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~63Hz
3	Output Load(輸出負載)	No Load and Full Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS
6		

※ Character Equipment(特性設備) :

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	AC Source(變頻器)	ALL POWER/PG-1005N
2	Power Meter(功率表)	YOKOGAWA/WT310
3	DC Load(DC負載)	ITECH/IT8512+

※ Character Data(特性數據) :

Input change with no load				
No Load		Input Condition		
		90V/63Hz	264Vac/47Hz	
		Input Current (A)	0.079	0.088
		Input Power (W)	5.29	4.92
Input change with full load				
Full Load		Input Condition		
		90V/63Hz	264Vac/47Hz	
		Input Current (A)	2.997	1.01
		Input Power (W)	269.8	260.5

1-8.Inrush Current (浪涌電流)

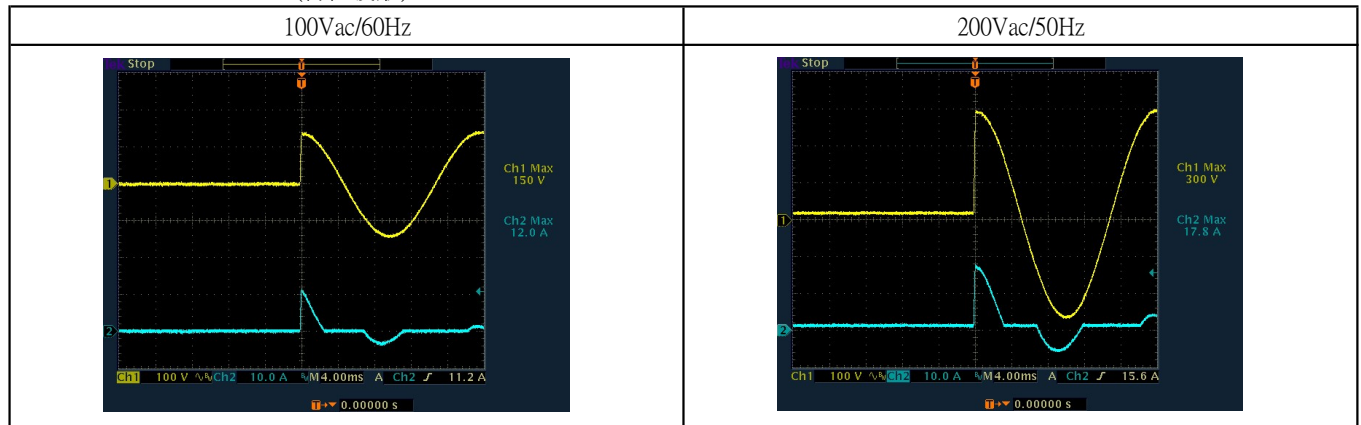
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	100Vac/200Vac
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 Data(特性數據):

Inrush Current		
O/P	Full Load	Full Load
I/P	I(A)	I(A)
	100Vac/60Hz	200Vac/50Hz
Character Result	12.0A	17.8A

※ Character Waveform (特性波形):



1-9.Turn On Delay(開機爬升延遲時間)

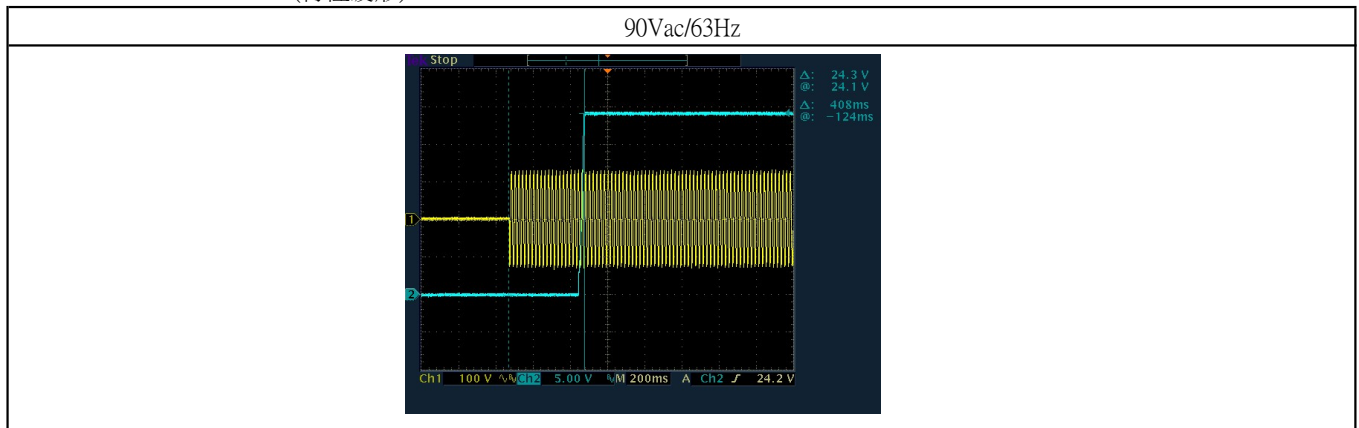
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac
2	I/P Frequency(Hz)(輸入頻率)	63Hz
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 Data(特性數據):

Turn on delay time	
I/P	90Vac/63Hz
Character Result	0.408S

※ Character Waveform (特性波形):



2-1. Hold Up Time Character (保持時間)

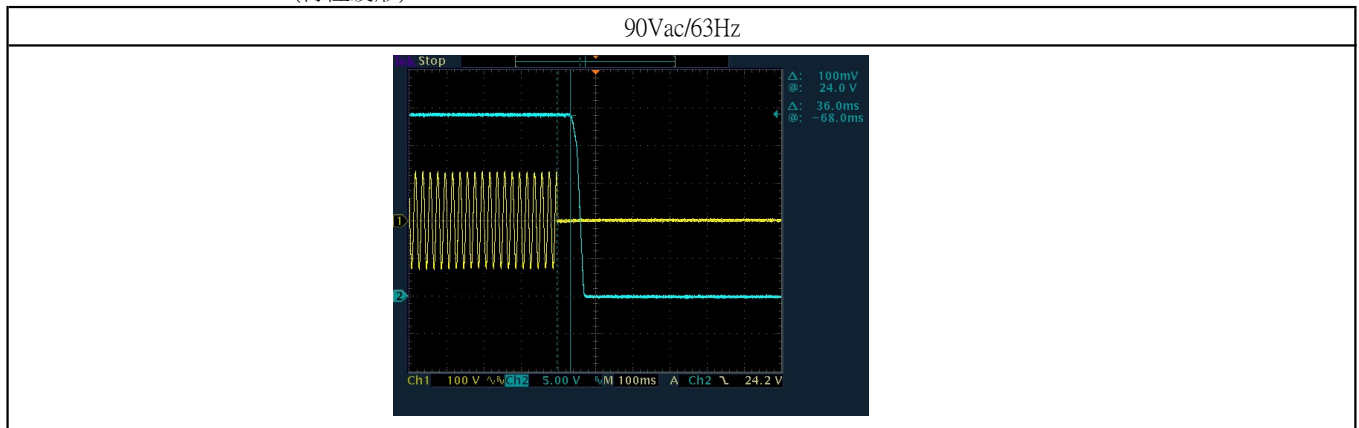
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac
2	I/P Frequency(Hz)(輸入頻率)	63Hz
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 Data(特性數據):

Hold up time	
I/P	90Vac/63Hz
Character Result	36.0mS

※ Character Waveform (特性波形):



2-2. Low Vac Shut Off (輸入欠压關斷特性)

※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	0~90Vac
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 Data(特性數據):

LOW Vac SHUT OFF	
0~90Vac Input	
O/P	Full Load
Brown in	77.5V
90~0Vac Input	
O/P	Full Load
Brown out	68.0V

2-3. Over Shoot(過沖特性)

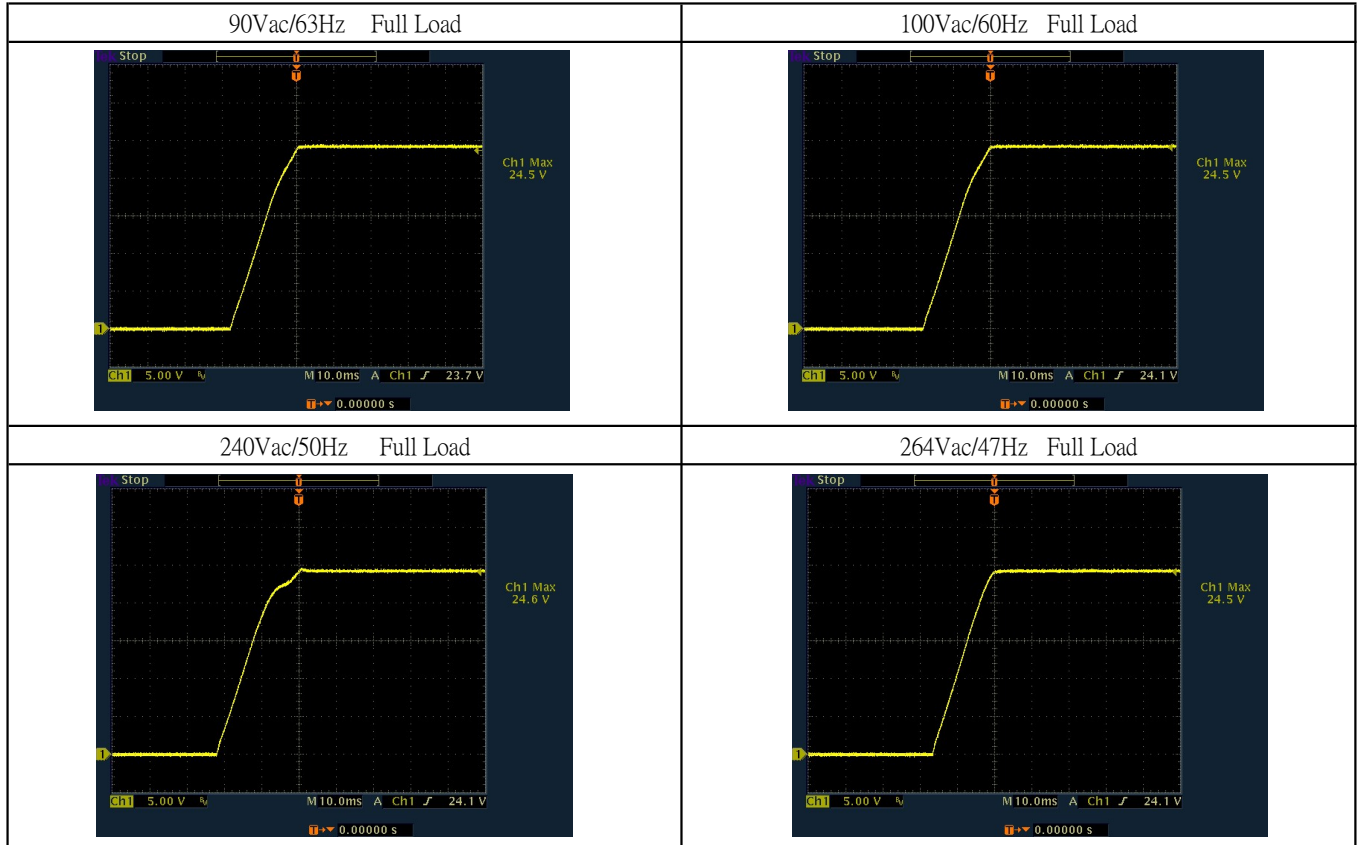
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~ 63Hz
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 Data(特性數據):

Over Shoot				
O/P	Full Load			
I/P	90Vac/63Hz	264Vac/47Hz	90Vac/63Hz	264Vac/47Hz
Character Result	24.5V	24.5V	24.6V	24.5V

※ Character Waveform (特性波形):



2-3. Over Shoot(過沖特性)

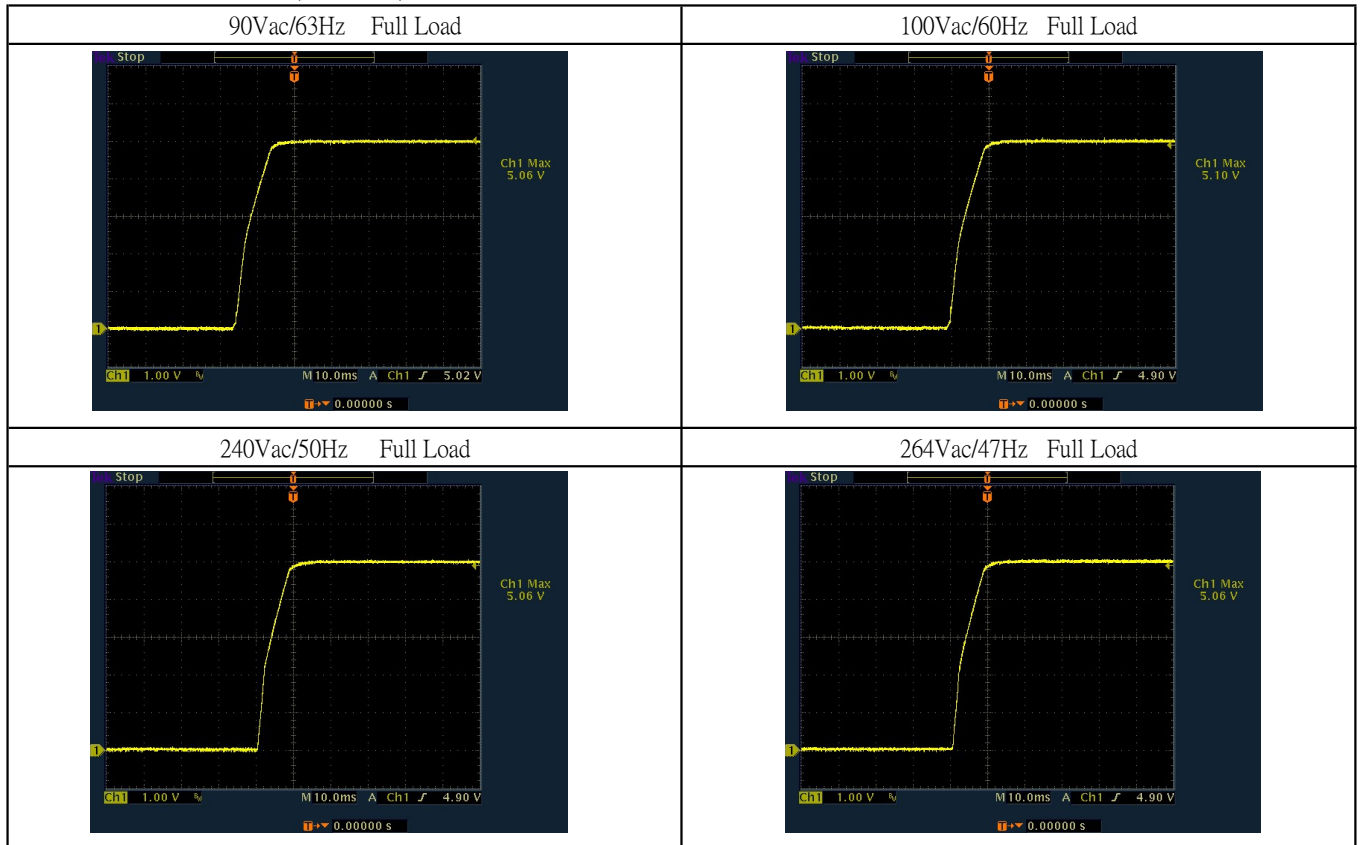
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~ 63Hz
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 Data(特性數據):

Over Shoot				
O/P	Full Load			
I/P	90Vac/63Hz	100Vac/60Hz	240Vac/50Hz	264Vac/47Hz
Character Result	5.06V	5.1V	5.06V	5.06V

※ Character Waveform (特性波形):



2-4.Under Shoot(下沖特性)

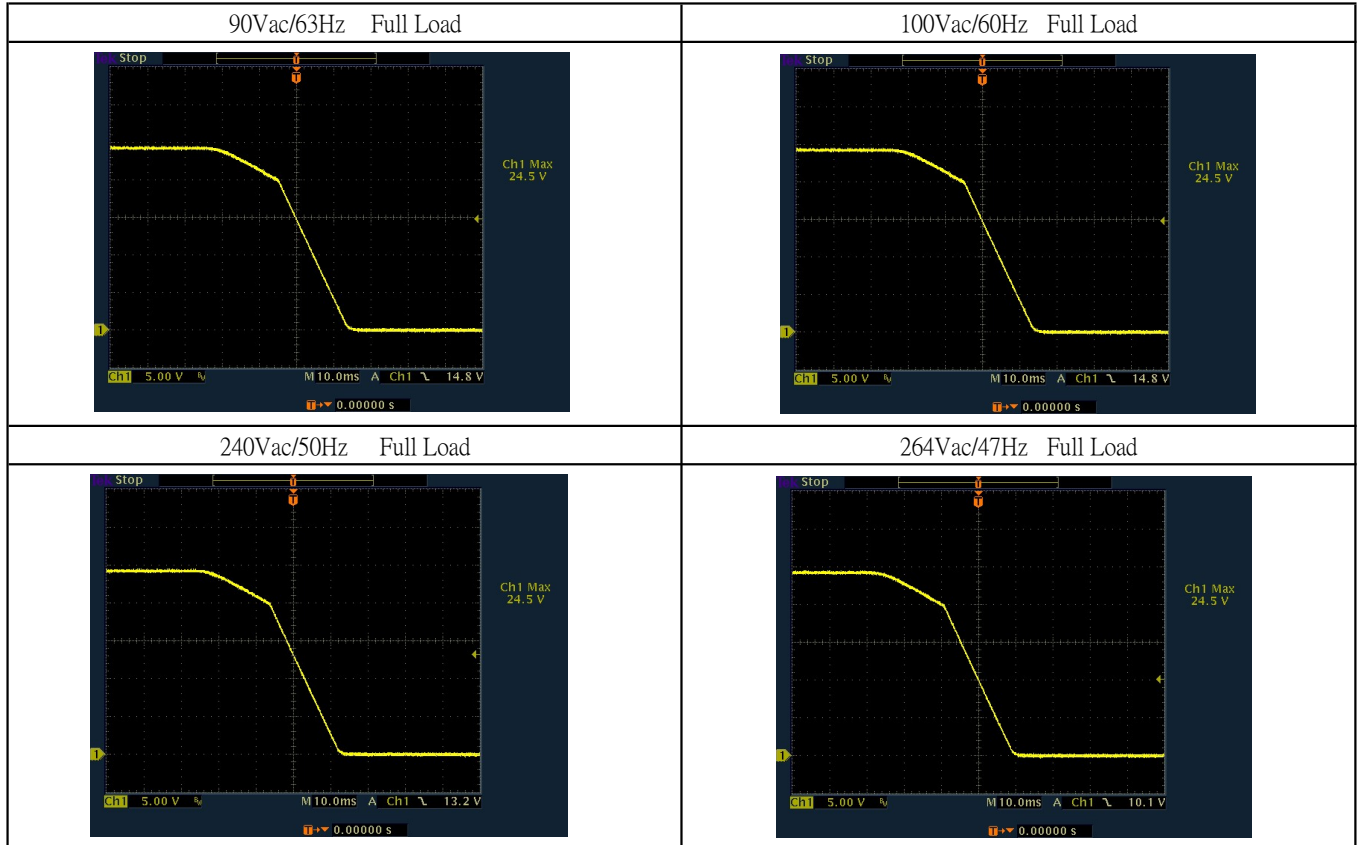
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~ 63Hz
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 Data(特性數據):

Under Shoot				
O/P	Full Load			
I/P	90Vac/63Hz	100Vac/60Hz	240Vac/50Hz	264Vac/47Hz
Character Result	24.5V	24.5V	24.5V	24.5V

※ Character Waveform (特性波形):



2-4.Under Shoot(下沖特性)

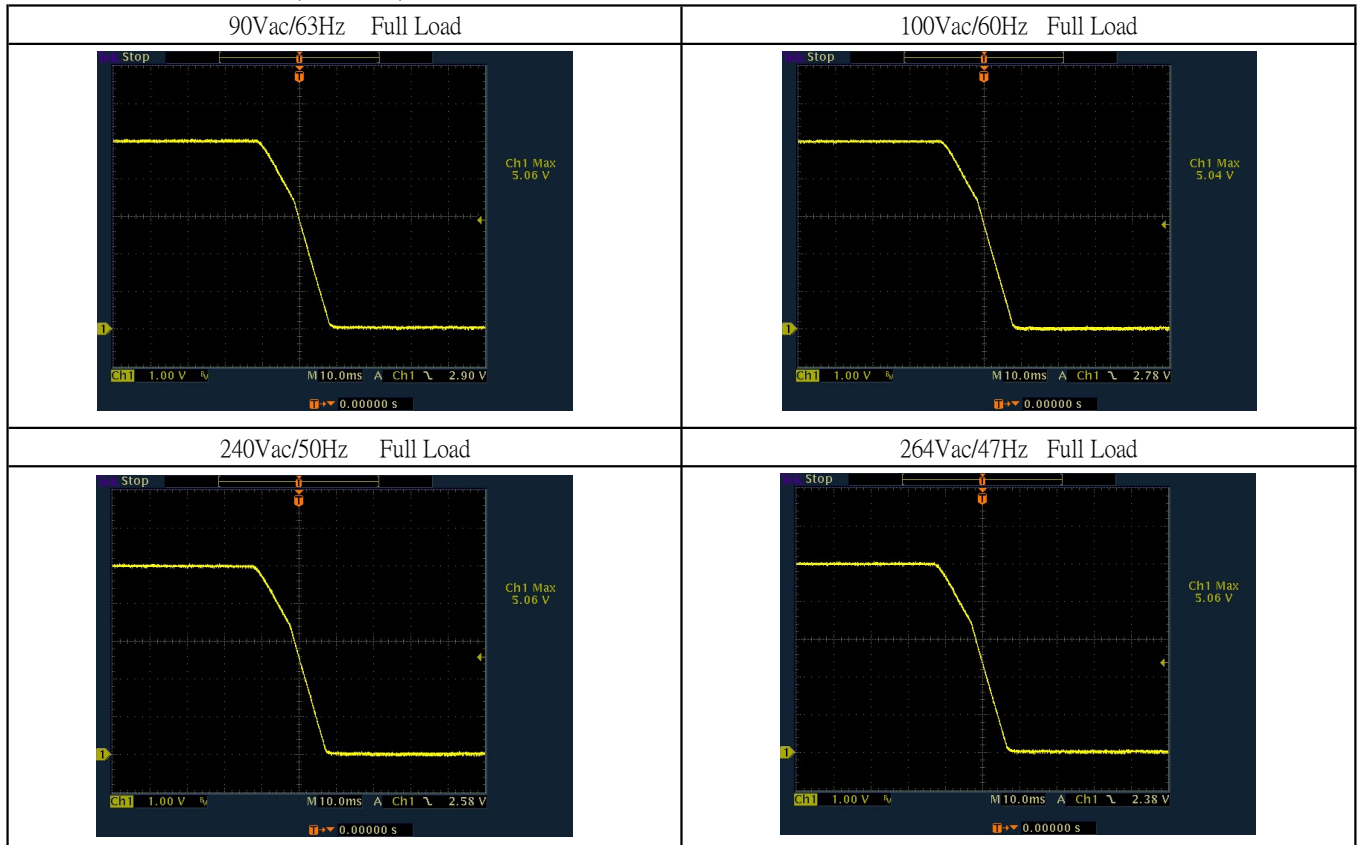
※ Character Condition(特性條件):

1	I/P Voltage(Vac)(輸入電壓)	90Vac/100Vac/240Vac/264Vac
2	I/P Frequency(Hz)(輸入頻率)	47Hz ~ 63Hz
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 Data(特性數據):

Under Shoot				
O/P	Full Load			
I/P	90Vac/63Hz	100Vac/60Hz	240Vac/50Hz	264Vac/47Hz
Character Result	5.06V	5.04V	5.06V	5.06V

※ Character Waveform (特性波形):



2-5.Leak Current(漏電流特性)

※Character Condition(特性條件) :

1	I/P Voltage(Vac)(輸入電壓)	240Vac
2	I/P Frequency(Hz)(輸入頻率)	50Hz
3	Output Load(輸出負載)	No Load
4	Ambient Temp.(°C)(環境溫度)	25°C
5	Sample Size(取樣數)	1PCS
6		

※Character Equipment(特性設備) :

ITEM	Equipment Item(設備)	Model No. / Manufacturer(製造商和型號)
1	Leak current Characterer(泄漏電流特性儀)	VG2301
2		
3		
4		
LEAK CURRENT CHARACTER		
	Spec.(mA MAX)	0.75
	O/P	No Load
	I/P	240Vac

※Character Data :

SINGLE-PHASE EQUIPMENT						
The Character was made in all combinations to the normal and reverse polarity of the supply circuit(Polarity Switch P1)						
Terminal A (Switch"s") of Measuring Instrument Connected to:	Switch"e" Position	Touch Current (mA r.m.s.)				
		Polarity P1/Primary Switch Condition				
		Normal/On	Normal/Off	Reverse/On	Reverse/Off	Judgement
Output	Closed	0.214	-	0.216	-	PASS

The touch current [did not] exceed _____ mA r.m.s with terminal A connected to the earth terminal of the unit with Switch "e" opened.

The touch current [did not] exceed 0.75 mA r.m.s with terminal A connected to the earth terminal of the unit with Switch "e" closed.