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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)

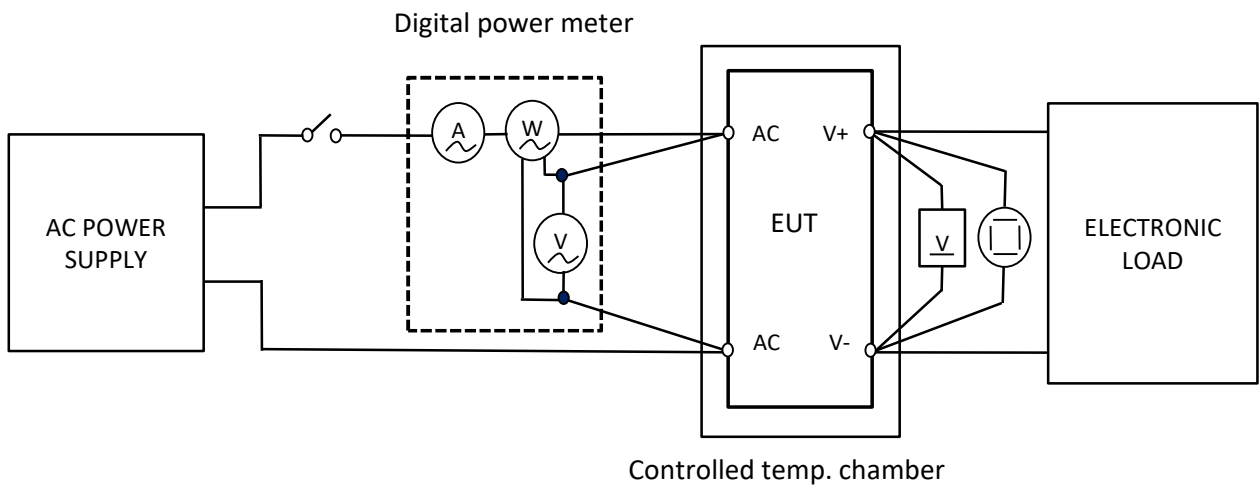
Turn On Delay(開機爬升延遲時間)

Hold Up Time Character (保持時間)

Low Vac Shut Off (輸入欠壓關斷特性)

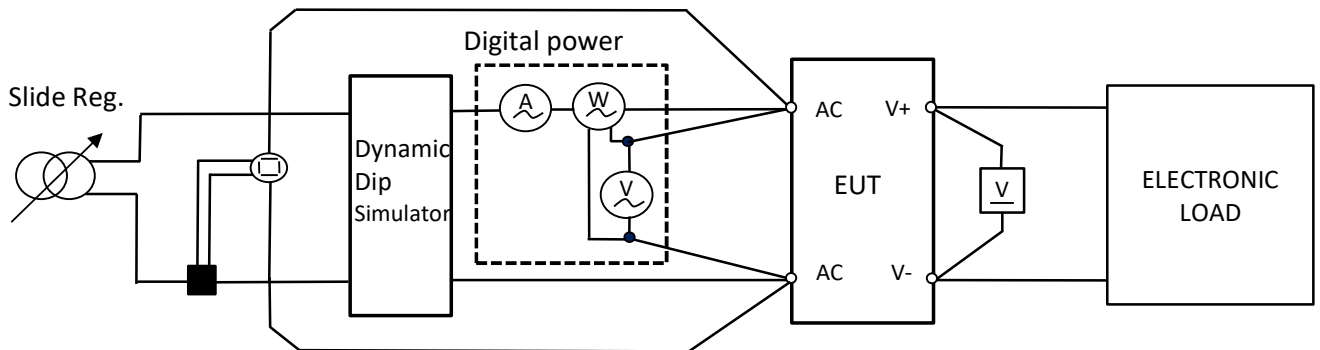
Over Shoot(過沖特性)

Under Shoot(下沖特性)

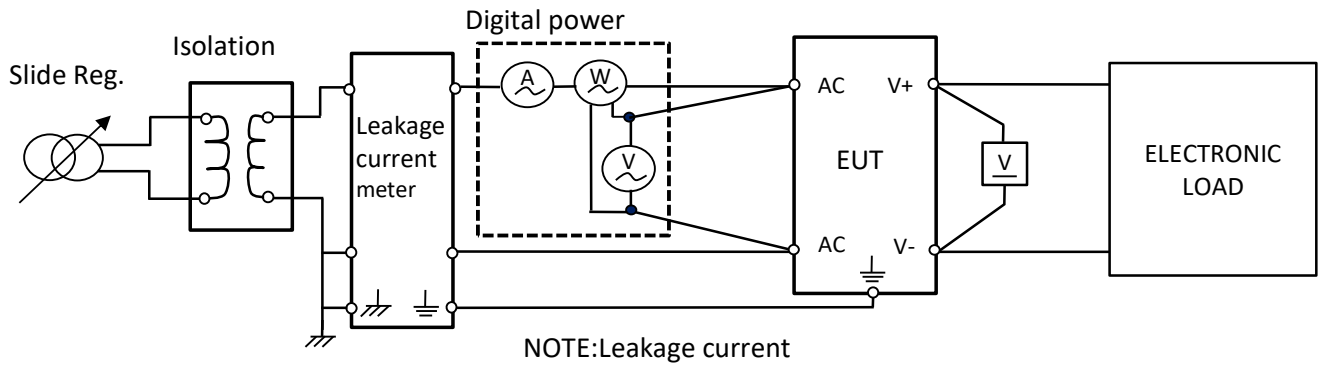


Circuit 2 特性回路2

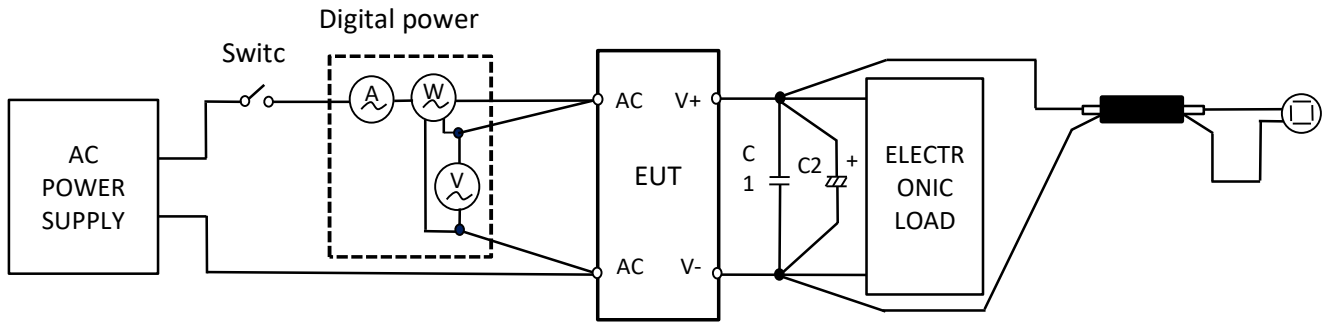
Inrush Current (浪涌電流)



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: $\leq 0.625\%$; Line Regulation $\leq 0.4\%$
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 $\leq 0.4\%$
0%	24.38V	24.38V	24.39V	24.39V	0.04%
25%	24.38V	24.38V	24.38V	24.38V	0.00%
50%	24.37V	24.37V	24.38V	24.38V	0.04%
75%	24.37V	24.37V	24.37V	24.37V	0.00%
100%	24.37V	24.37V	24.37V	24.37V	0.00%
Load Regulation: $\leq 0.625\%$	0.04%	0.04%	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%	5.12V	5.12V	5.12V	5.12V	0.00%
25%	5.12V	5.12V	5.12V	5.12V	0.00%
50%	5.11V	5.11V	5.11V	5.11V	0.00%
75%	5.11V	5.11V	5.11V	5.11V	0.00%
100%	5.11V	5.11V	5.11V	5.11V	0.00%
Load Regulation: $\leq 0.8\%$	0.20%	0.20%	0.20%	0.20%	

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

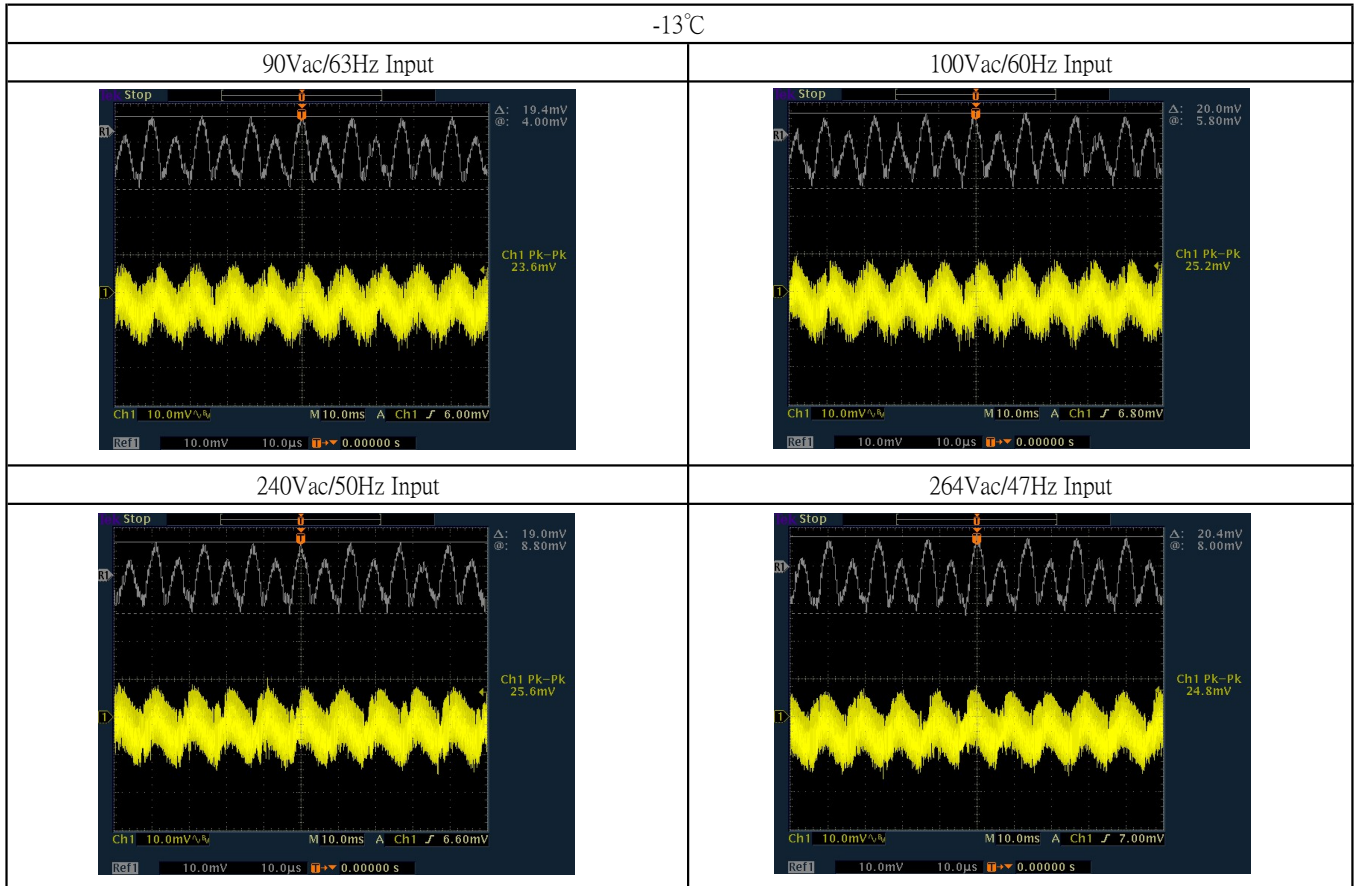
※ Character Condition(特性條件):

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	19.4mV	23.6mV	20.0mV	25.2mV	19.0mV	25.6mV	20.4mV	24.8mV

※ Character Waveform (特性波形):



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

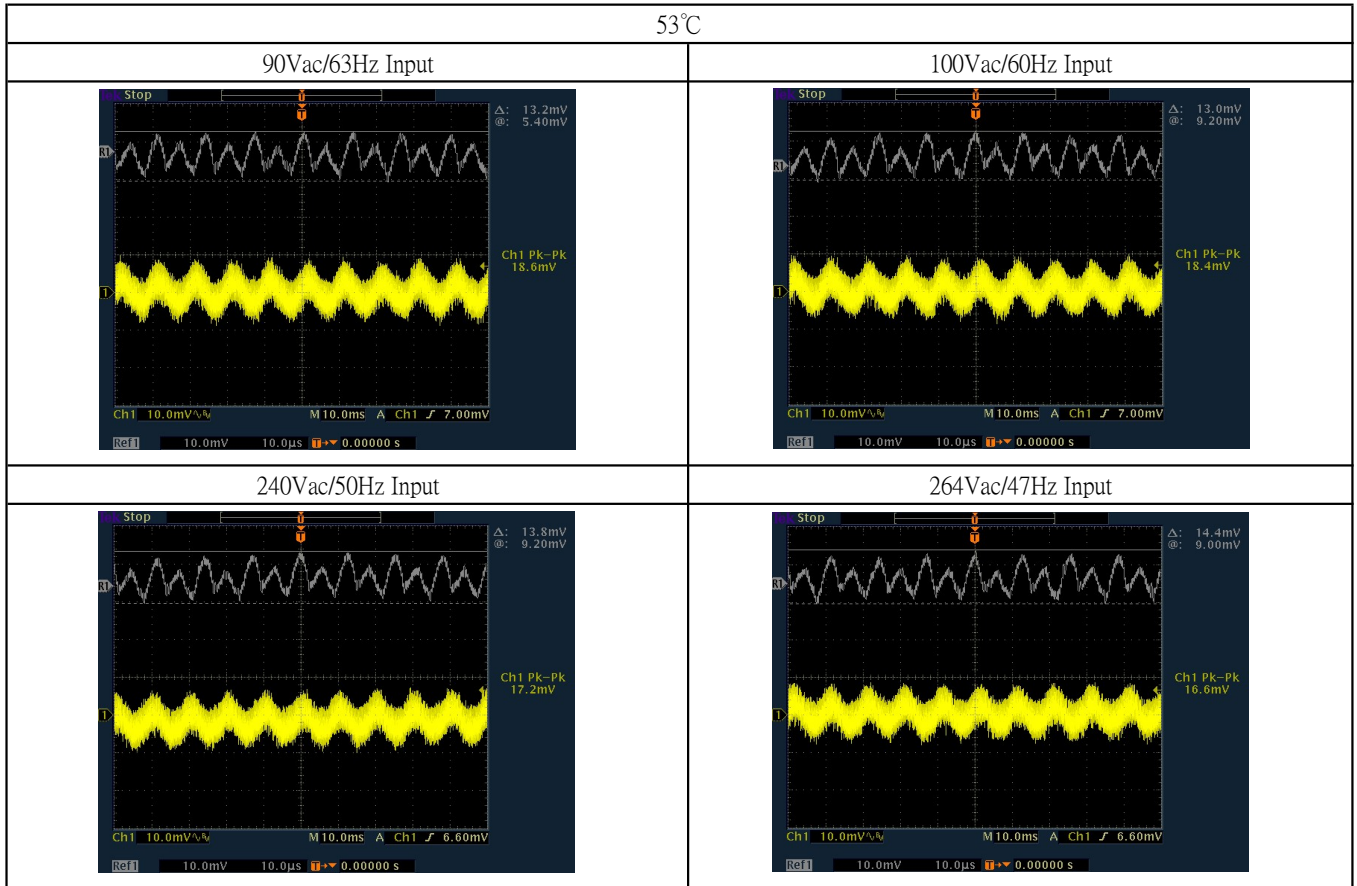
※ Character Condition(特性條件):

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	13.2mV	18.6mV	13.0mV	18.4mV	13.8mV	17.2mV	14.4mV	16.6mV

※ Character Waveform (特性波形):



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

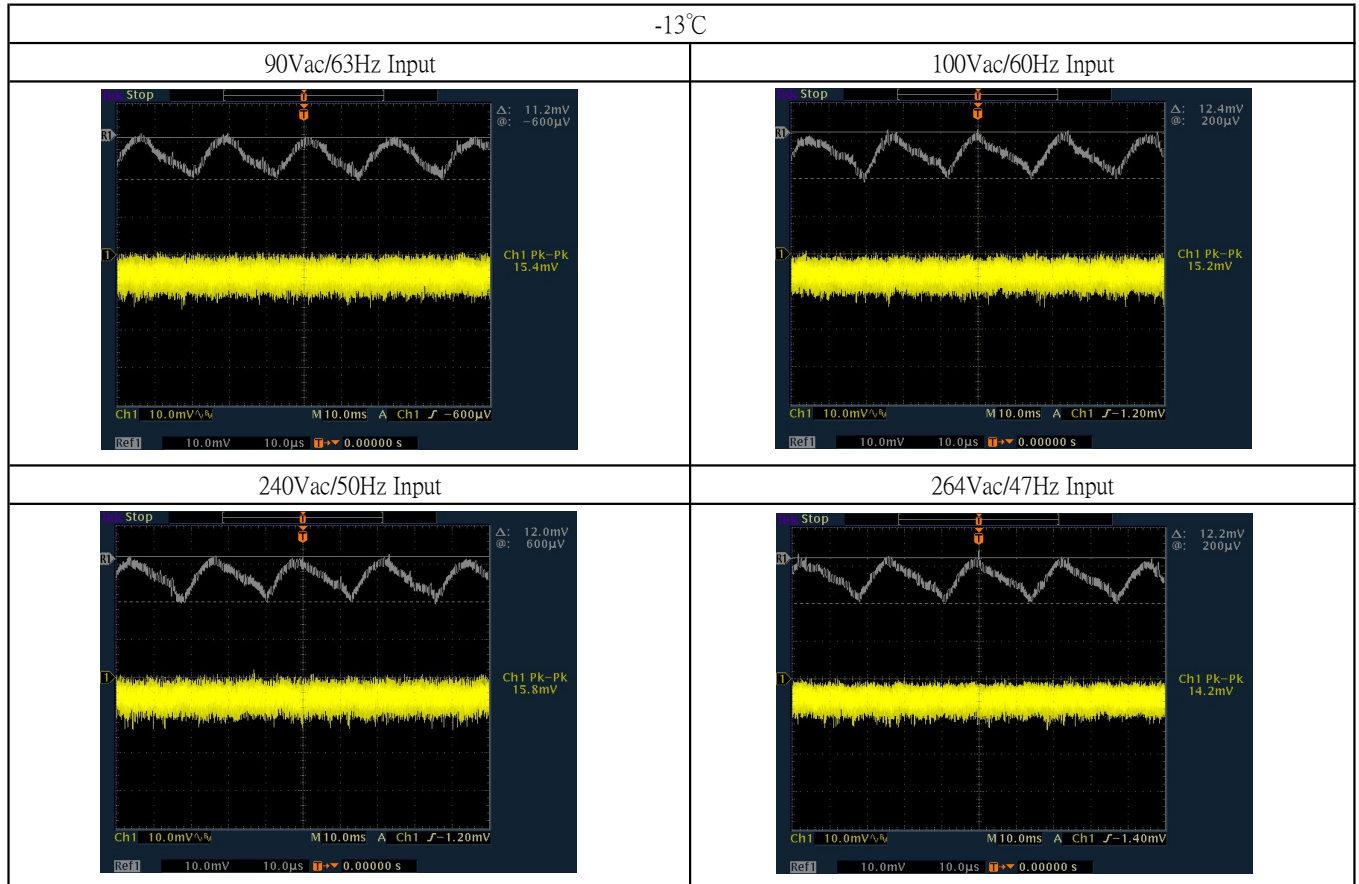
※ Character Condition(特性條件):

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	11.2mV	15.4mV	12.4mV	15.2mV	12.0mV	15.8mV	12.2mV	14.2mV

※ Character Waveform (特性波形):



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

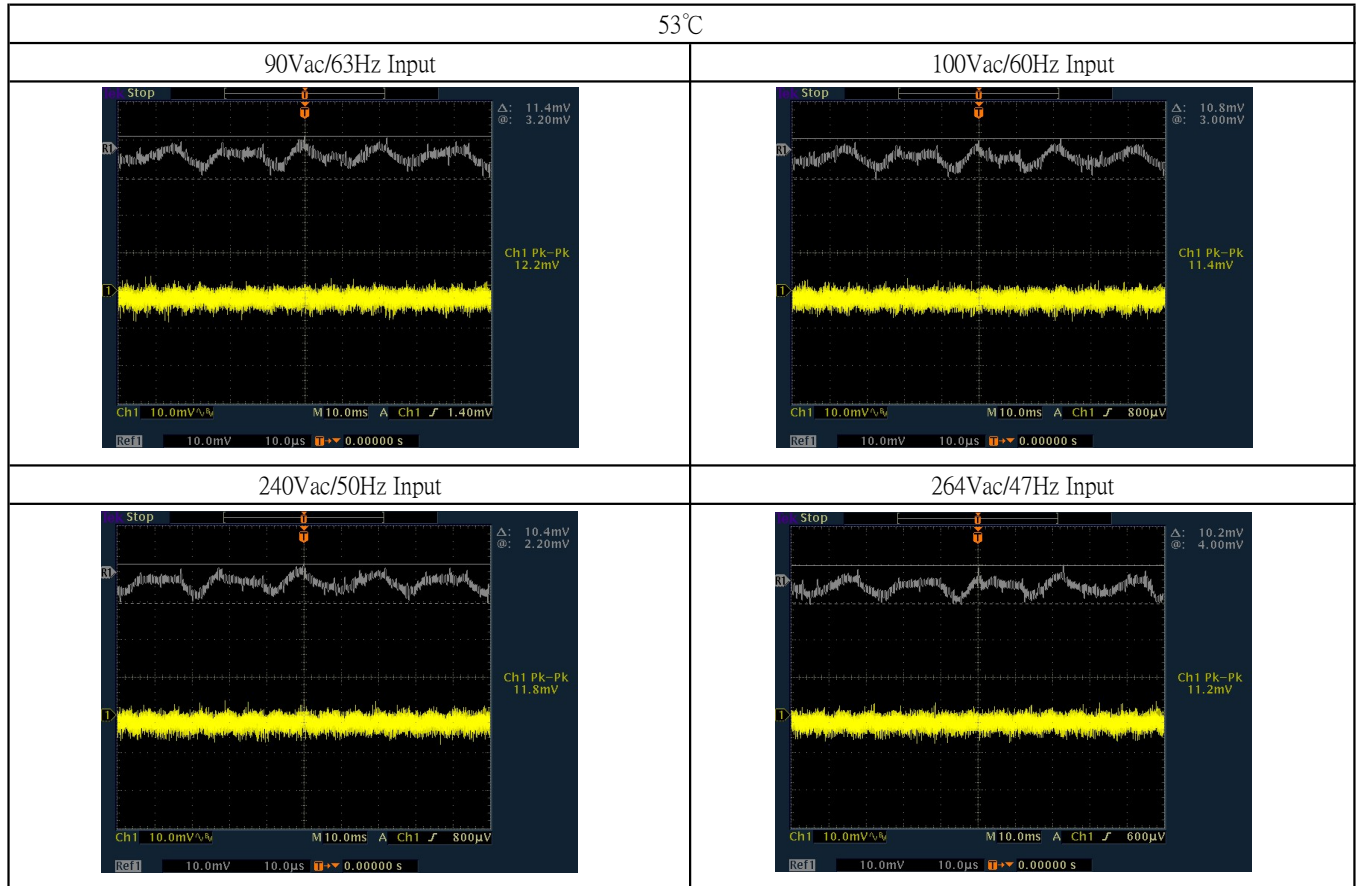
※ Character Condition(特性條件):

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	11.4mV	12.2mV	10.8mV	11.4mV	10.4mV	11.8mV	10.2mV	11.2mV

※ Character Waveform (特性波形):



1-3.Over-Voltage Protection(過電壓保護特性)

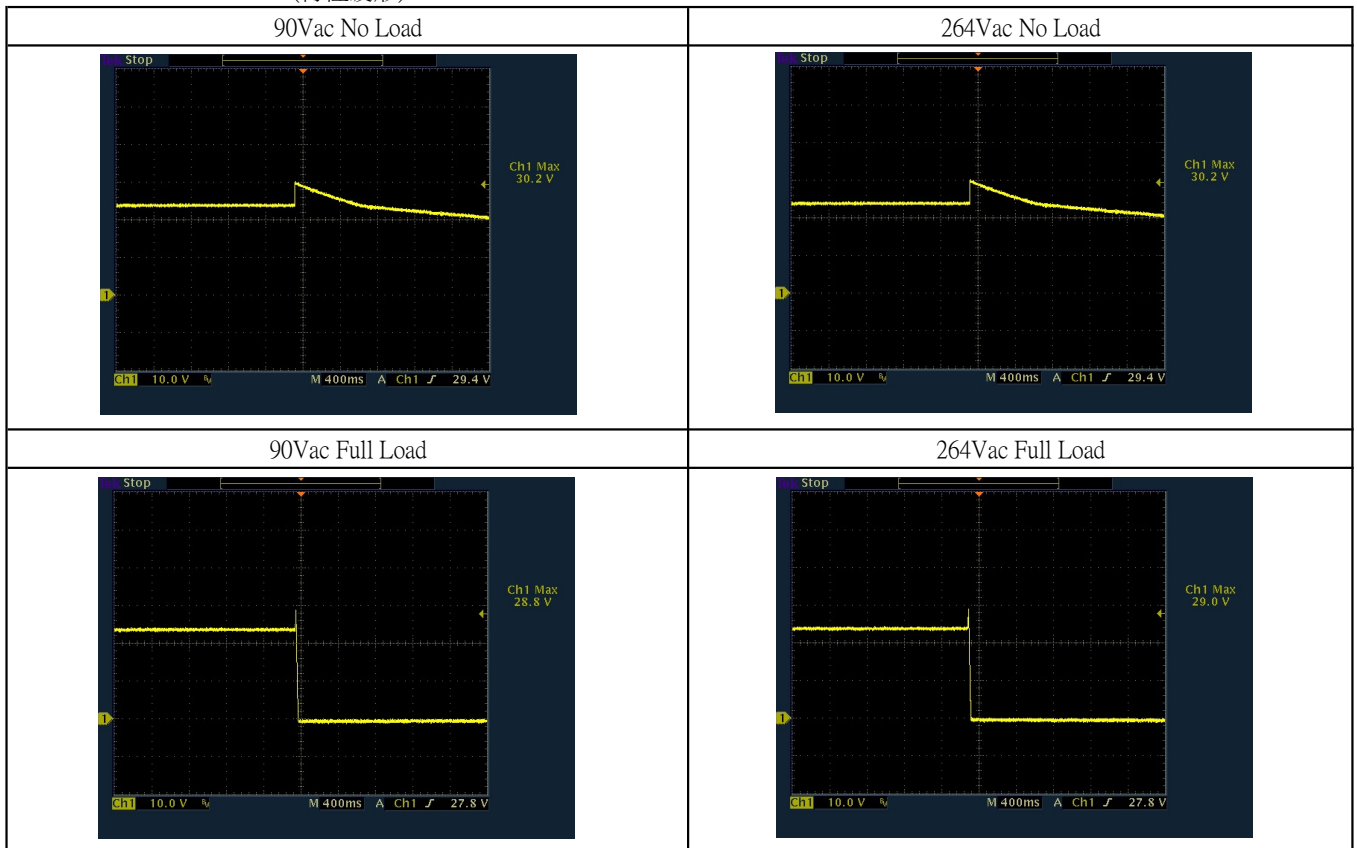
※ Character Condition(特性條件):

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	30.2V	28.8V	29.0V

※ Character Waveform (特性波形):



1-3.Over-Voltage Protection(過電壓保護特性)

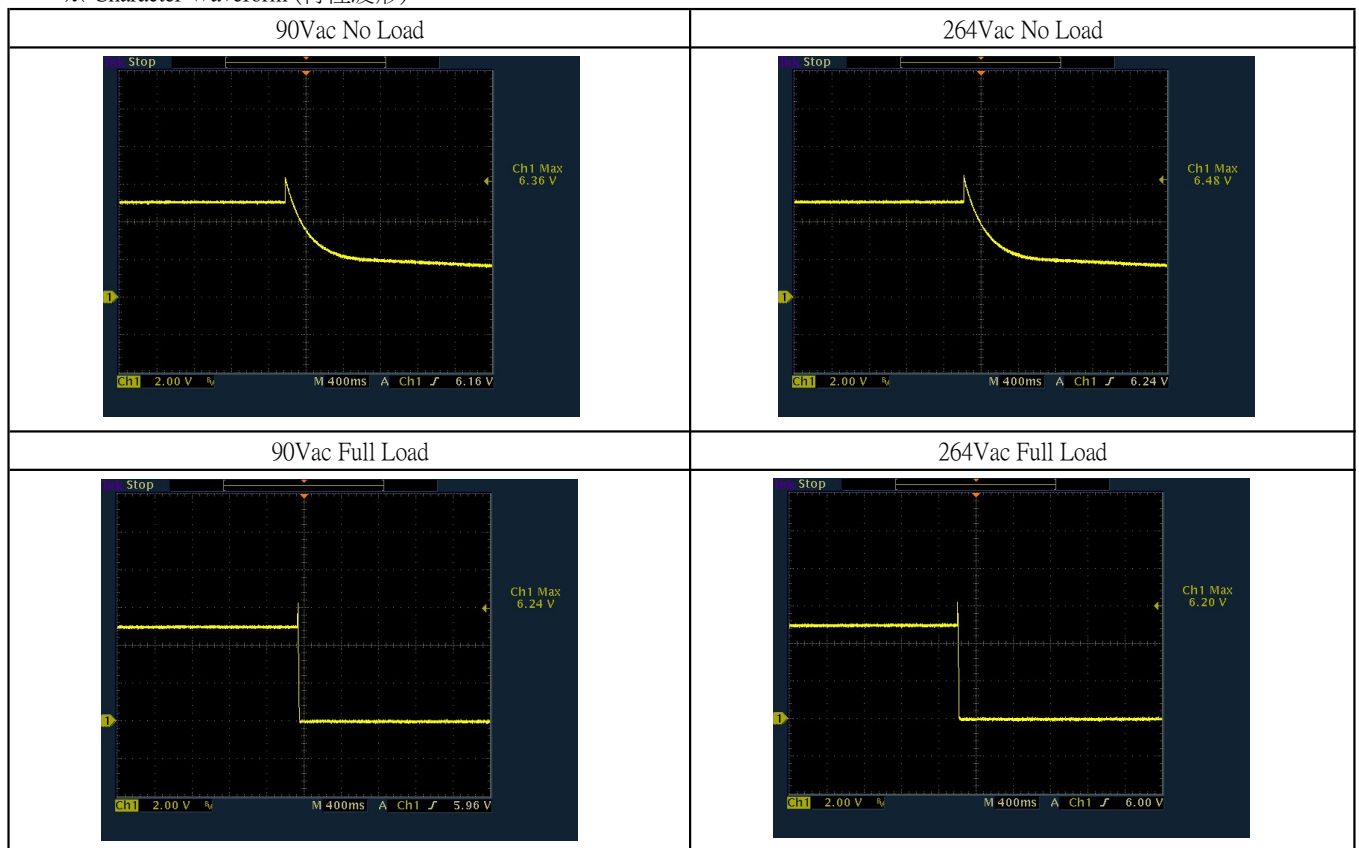
※ Character Condition(特性條件):

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	6.36V	6.48V	6.24V	6.2V

※ Character Waveform (特性波形):



1-4. Over-Current Protection(過電流保護特性)

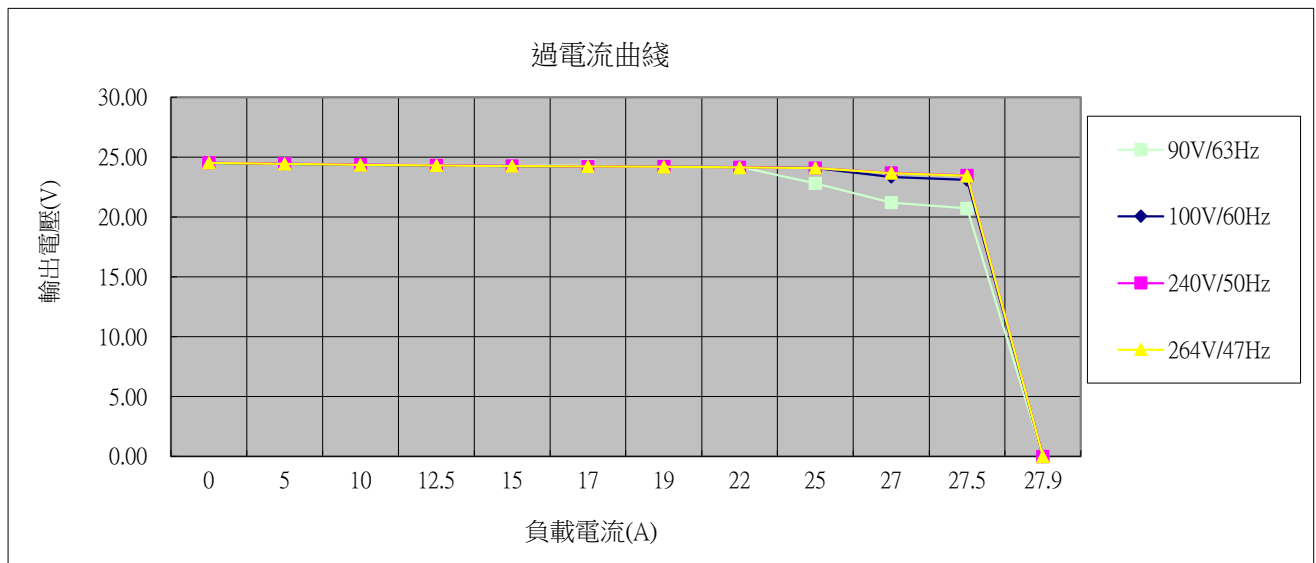
※ Character Condition(特性條件):

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	27.9A	27.9A	27.9A	27.9A

I/P	90V/63Hz											
Voltage(V)	24.54	24.46	24.38	24.34	24.30	24.27	24.24	24	22.81	21.21	20.71	0
Current(A)	0	5	10	12.5	15	17	19	22	25	27	27.5	27.9
I/P	100V/60Hz											
Voltage(V)	24.52	24.44	24.35	24.31	24.26	24.23	24.20	24	24.09	23.35	23.08	0
Current(A)	0	5	10	12.5	15	17	19	22	25	27	27.5	27.9
I/P	240V/50Hz											
Voltage(V)	24.53	24.45	24.36	24.32	24.28	24.24	24.21	24	24	23.7	23.46	0
Current(A)	0	5	10	12.5	15	17	19	22	25	27	27.5	27.9
I/P	264V/47Hz											
Voltage(V)	24.52	24.43	24.34	24.30	24.25	24.22	24.19	24	24	23.68	23.43	0
Current(A)	0	5	10	12.5	15	17	19	22	25	27	27.5	27.9



1-4. Over-Current Protection(過電流保護特性)

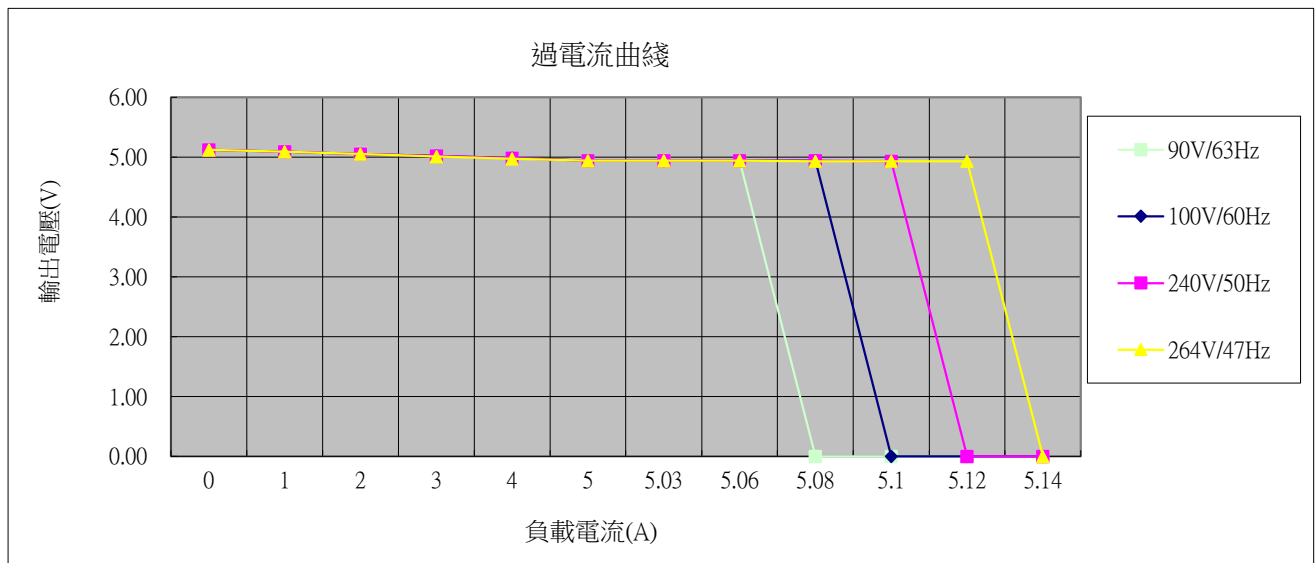
※ Character Condition(特性條件):

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	5.06A	5.1A	5.12A	5.14A

I/P	90V/63Hz											
Voltage(V)	5.12	5.09	5.06	5.02	4.98	4.94	4.94	5	0	0	0	0
Current(A)	0	1	2	3	4	5	5.03	5.06	5.08	5.1	5.12	5.14
I/P	100V/60Hz											
Voltage(V)	5.12	5.09	5.05	5.02	4.98	4.94	4.94	5	4.94	0	0	0
Current(A)	0	1	2	3	4	5	5.03	5.06	5.08	5.1	5.12	5.14
I/P	240V/50Hz											
Voltage(V)	5.12	5.09	5.05	5.02	4.98	4.94	4.94	5	5	4.93	0	0
Current(A)	0	1	2	3	4	5	5.03	5.06	5.08	5.1	5.12	5.14
I/P	264V/47Hz											
Voltage(V)	5.12	5.09	5.05	5.01	4.97	4.94	4.94	5	5	4.93	4.93	0
Current(A)	0	1	2	3	4	5	5.03	5.06	5.08	5.1	5.12	5.14



MODEL NO: UOHC3300-2413

24V/12.5A

1-5. Dynamic ripple Character(動態負載特性)

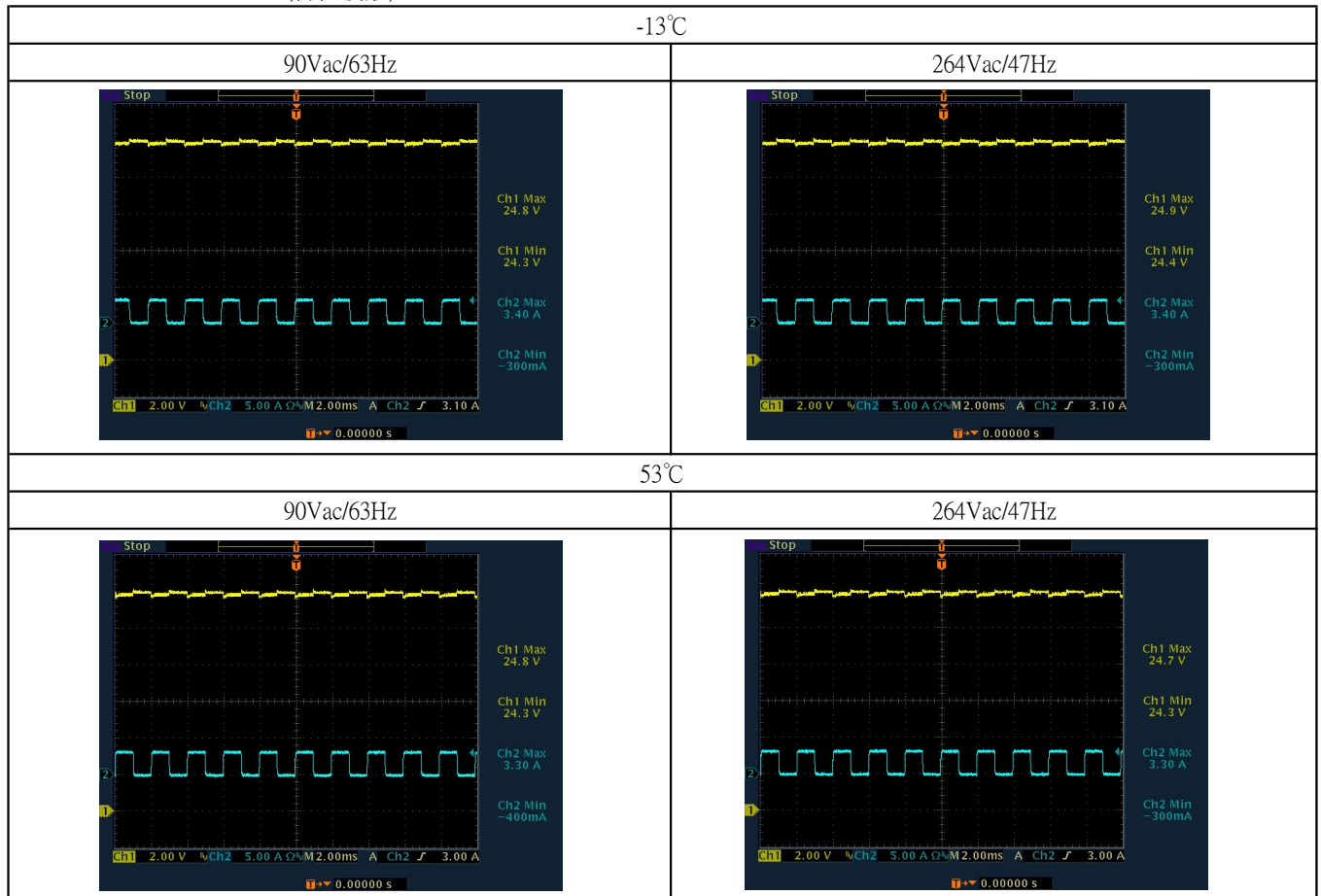
※ Character Condition(特性條件):

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	24.8V	24.3V	24.9V	24.4V
53°C	24.8V	24.3V	24.7V	24.3V

※ Character Waveform (特性波形):



MODEL NO: UOHC3300-2413

24V/12.5A

1-5. Dynamic ripple Character(動態負載特性)

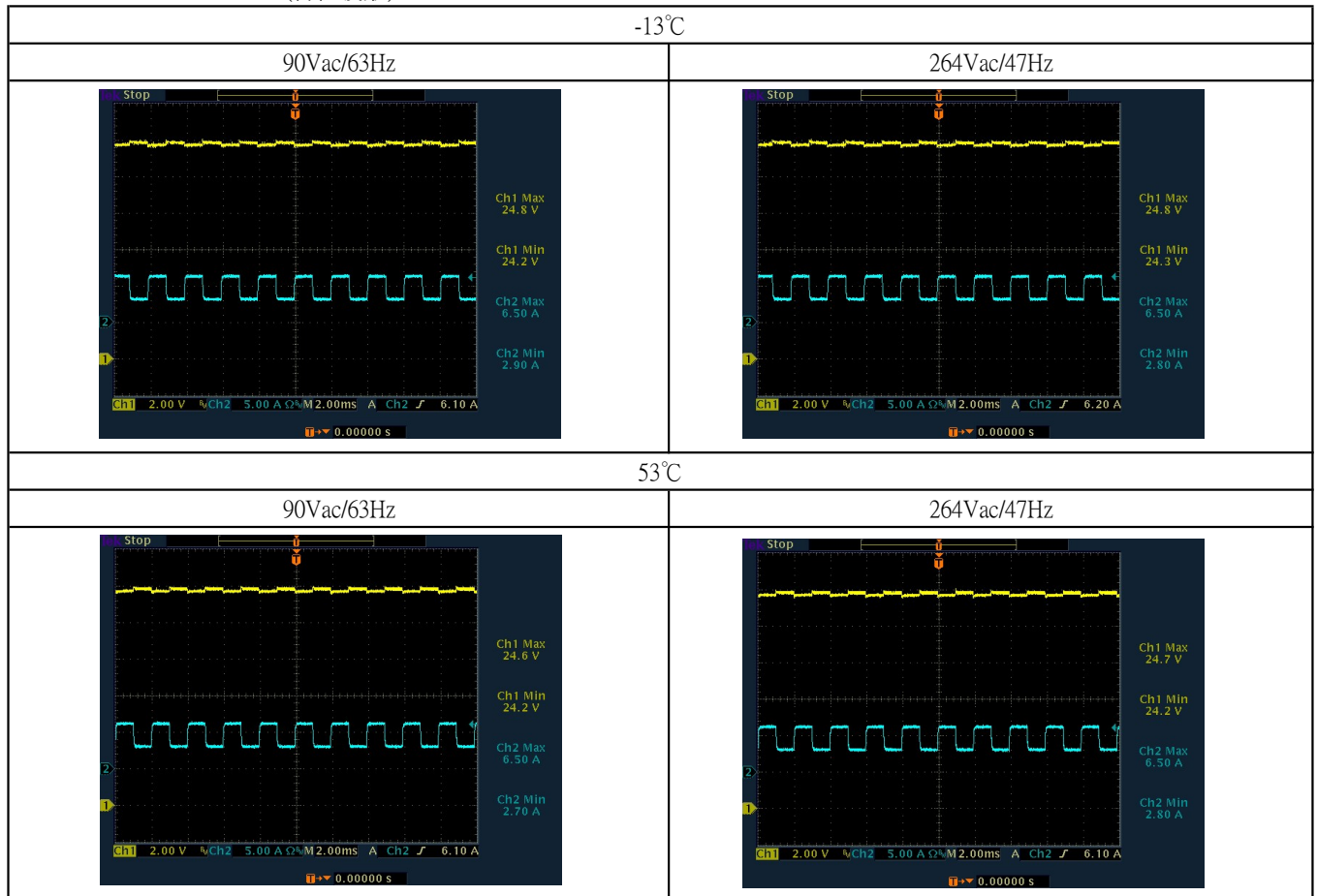
※ Character Condition(特性條件):

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	24.8V	24.2V	24.8V	24.3V
53°C	24.6V	24.2V	24.7V	24.2V

※ Character Waveform (特性波形):



1-5. Dynamic ripple Character(動態負載特性)

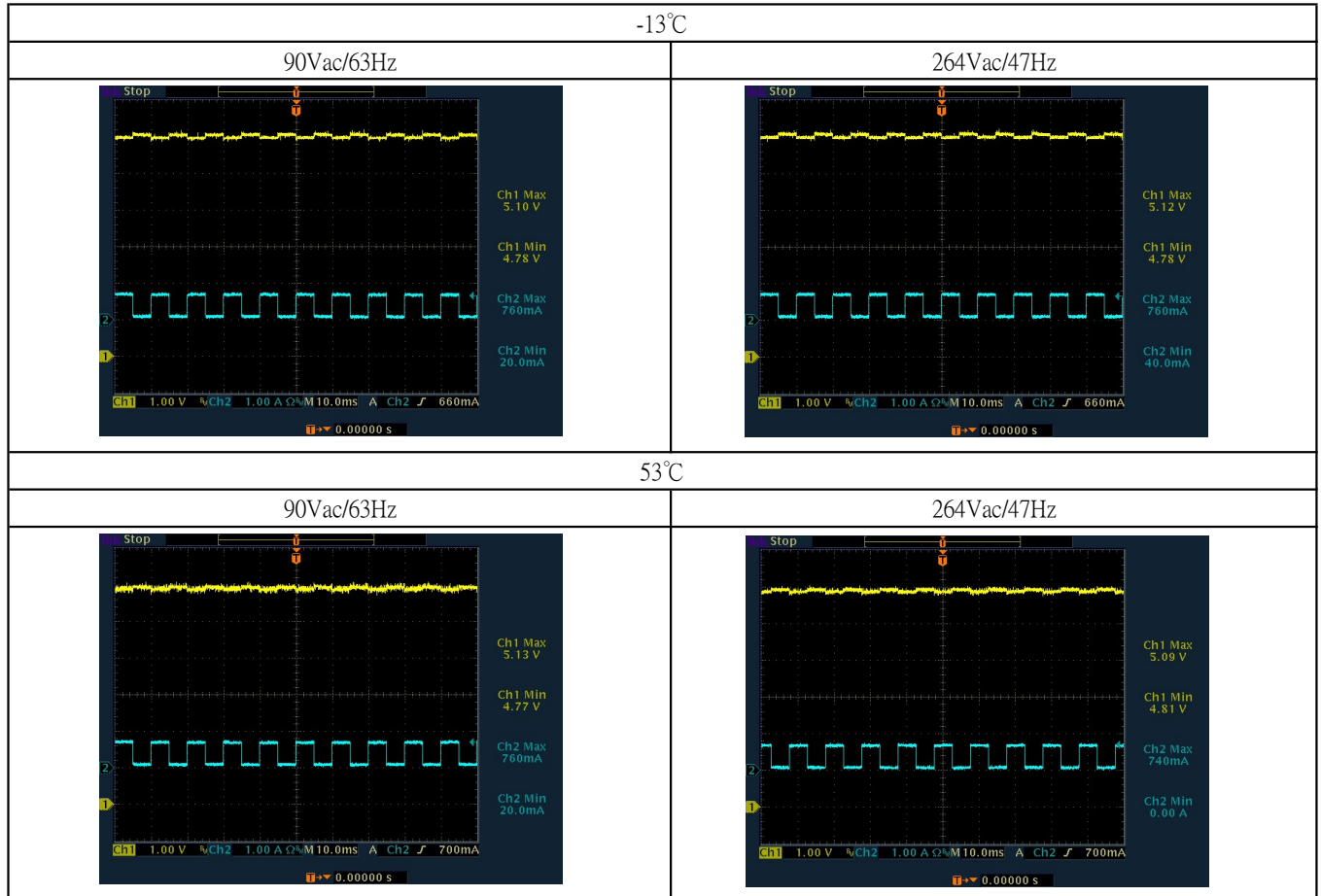
※ Character Condition(特性條件):

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	5.1V	4.78V	5.12V	4.78V
53°C	5.13V	4.77V	5.09V	4.81V

※ 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)	12.5A

※ 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 (%)	6.198W	5.581W	
25%	3.125A	90.58	76.75	84.73%	87.88	76.75			87.34%
50%	6.25A	174.1	153.44	88.13%	170.1	153.50			90.24%
75%	9.375A	259.9	230.06	88.52%	253.6	230.06			90.72%
100%	12.5A	347.9	306.75	88.17%	338.5	306.75			90.62%
Average				87.39%			89.73%		

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

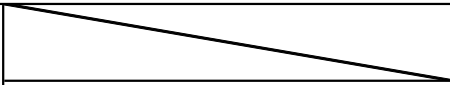
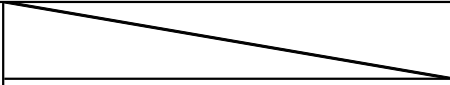
※ Character Condition(特性條件) :

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/APG-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)	0.078
Input Power (W)	4.89	4.2	
Input change with full load			
Full Load		Input Condition	
		90V/63Hz	264Vac/47Hz
		Input Current (A)	3.74
Input Power (W)	338.5	324.4	

1-8.Inrush Current (浪涌電流)

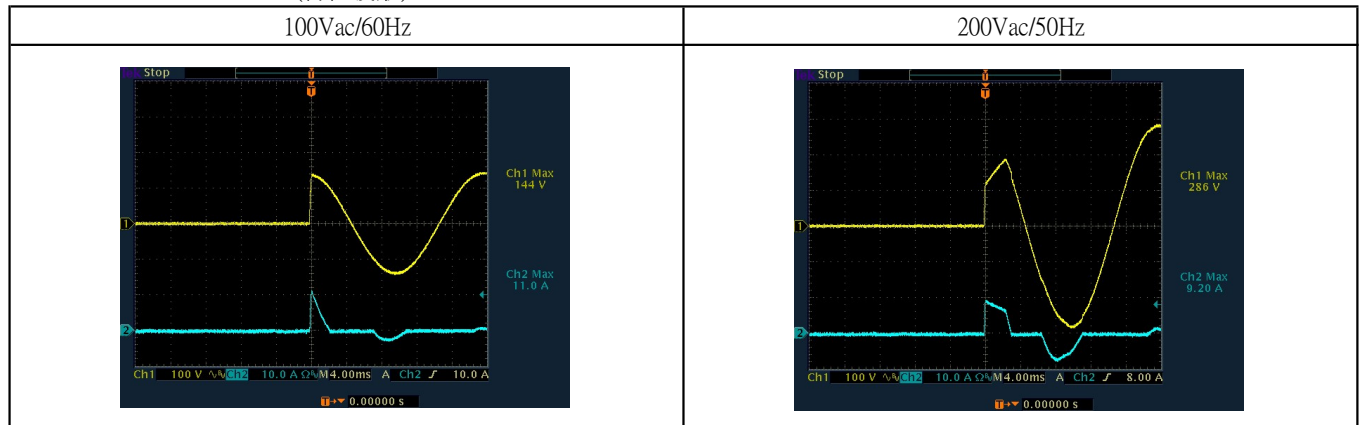
※ Character Condition(特性條件) :

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)	100Vac/60Hz	200Vac/50Hz
Character Result	11.0A	9.2A

※ Character Waveform (特性波形) :



1-9.Turn On Delay(開機爬升延遲時間)

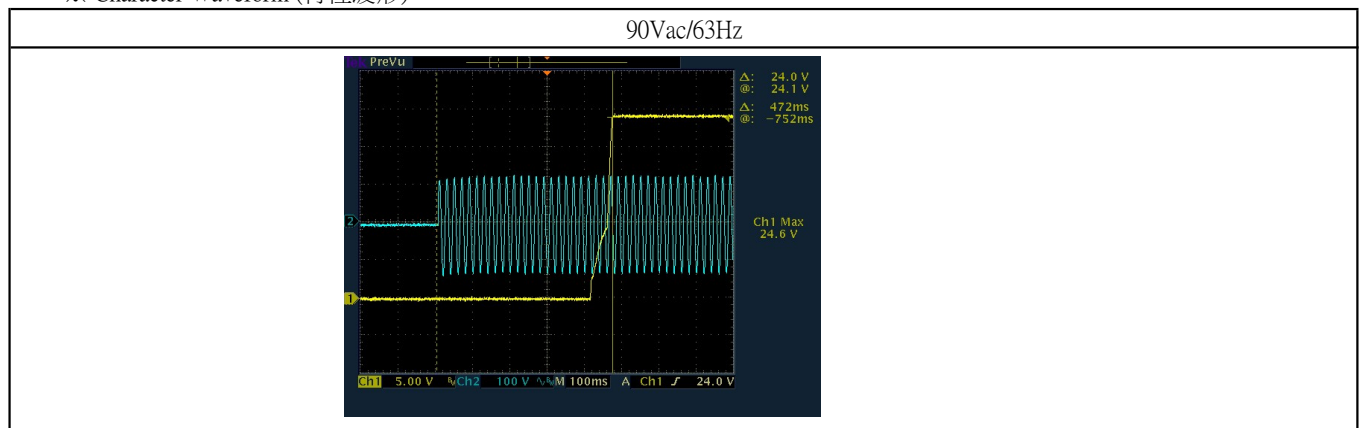
※ Character Condition(特性條件):

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	0.472S

※ Character Waveform (特性波形):



2-1. Hold Up Time Character (保持時間)

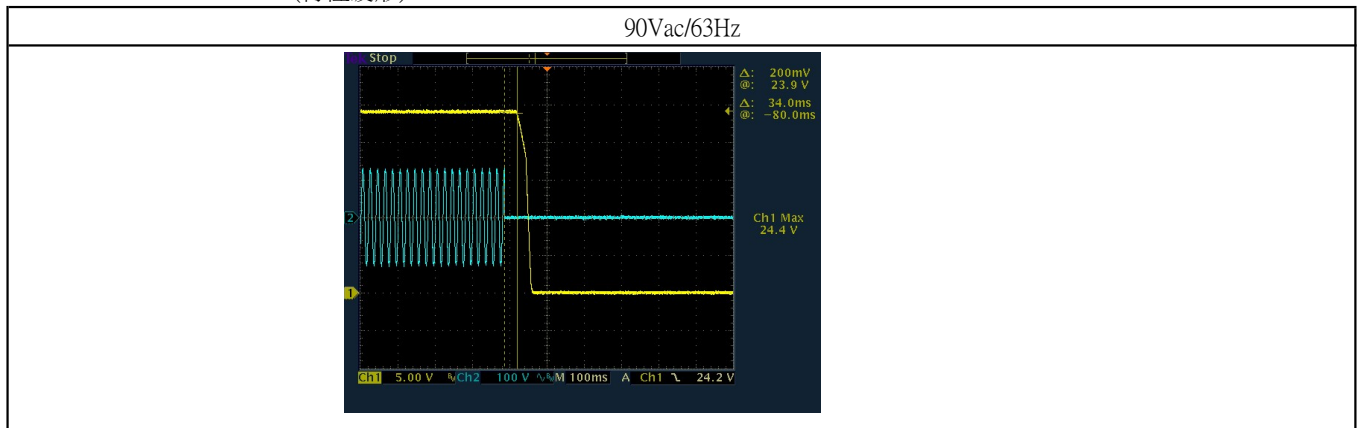
※ Character Condition(特性條件):

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	34.0mS

※ Character Waveform (特性波形):



2-2. Low Vac Shut Off (輸入欠壓關斷特性)

※ 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	78.0V
90~0Vac Input	
O/P	Full Load
Brown out	68.0V

2-3. Over Shoot(過沖特性)

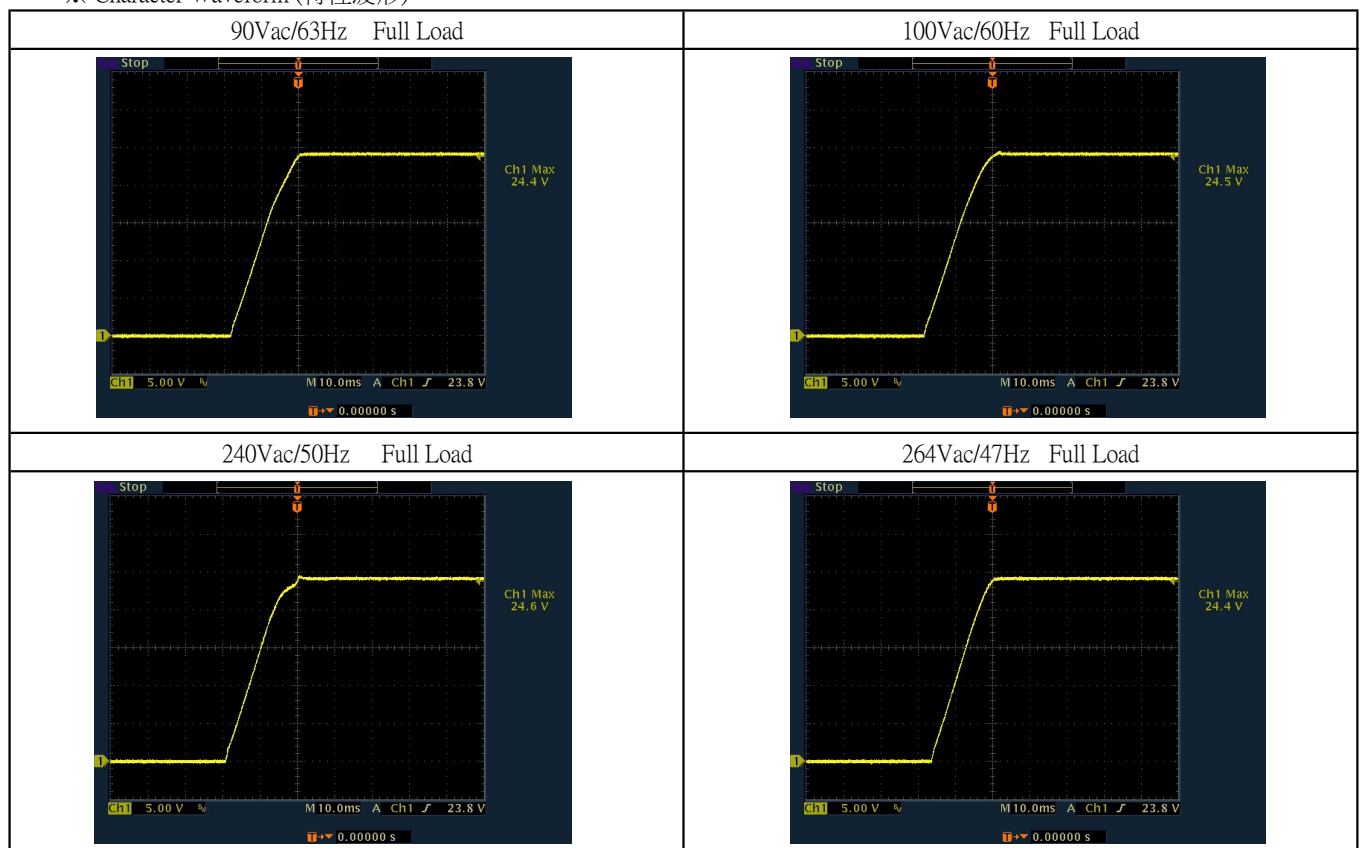
※ Character Condition(特性條件):

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	24.4V	24.5V	24.6V	24.4V

※ Character Waveform (特性波形):



2-3. Over Shoot(過沖特性)

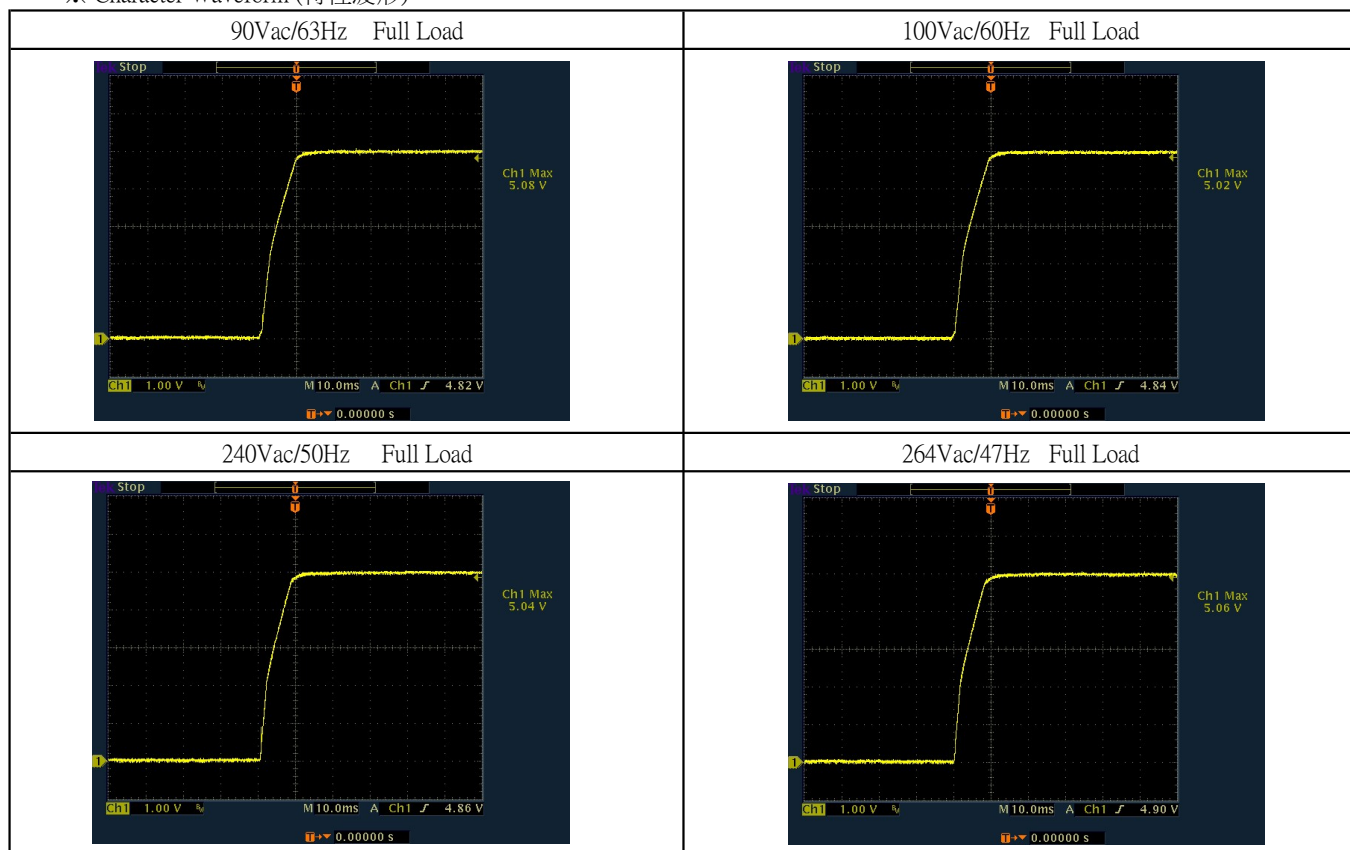
※ Character Condition(特性條件):

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	5.08	5.02	5.04	5.06

※ Character Waveform (特性波形):



2-4.Under Shoot(下沖特性)

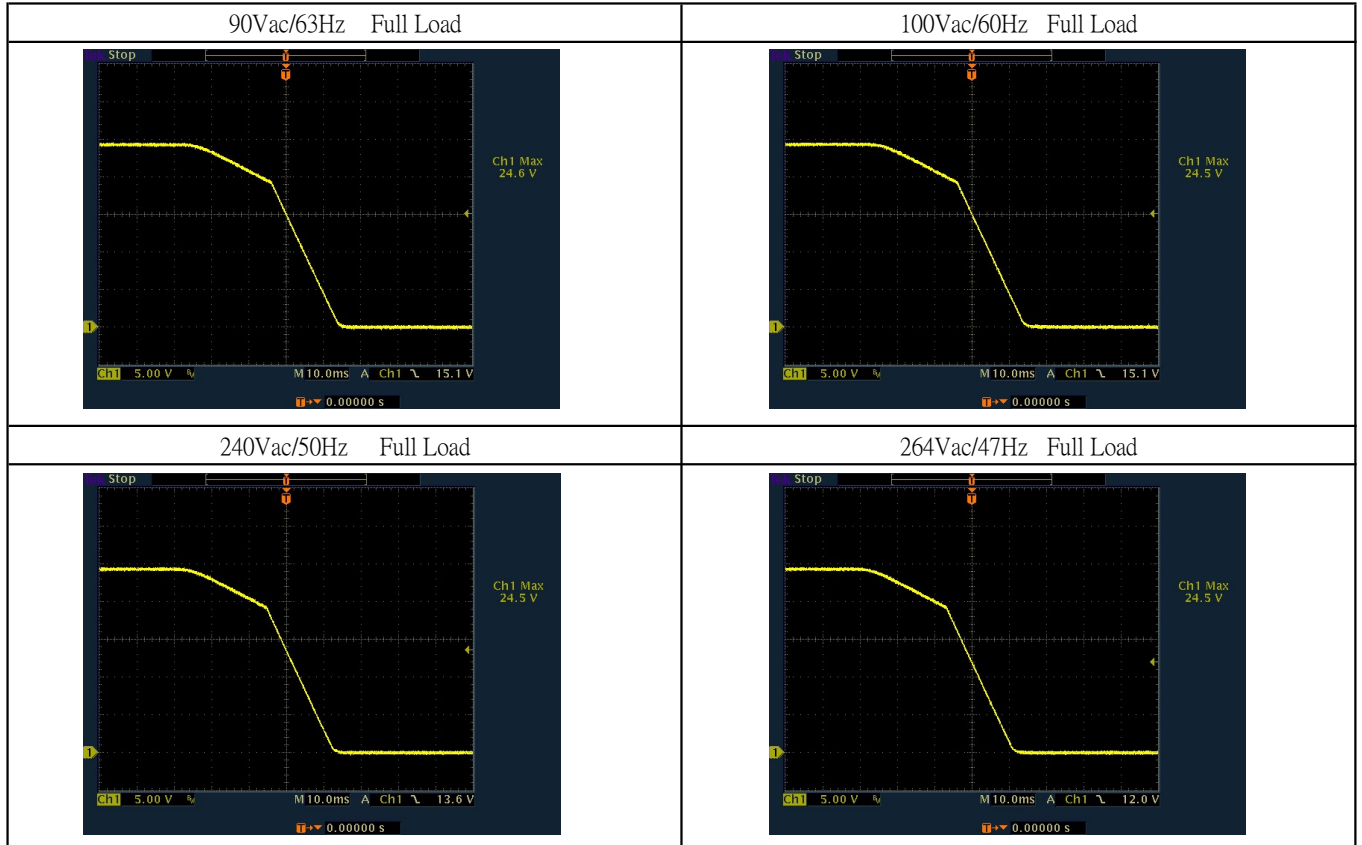
※ Character Condition(特性條件):

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	24.6V	24.5V	24.5V	24.5V

※ Character Waveform (特性波形):



2-4.Under Shoot(下沖特性)

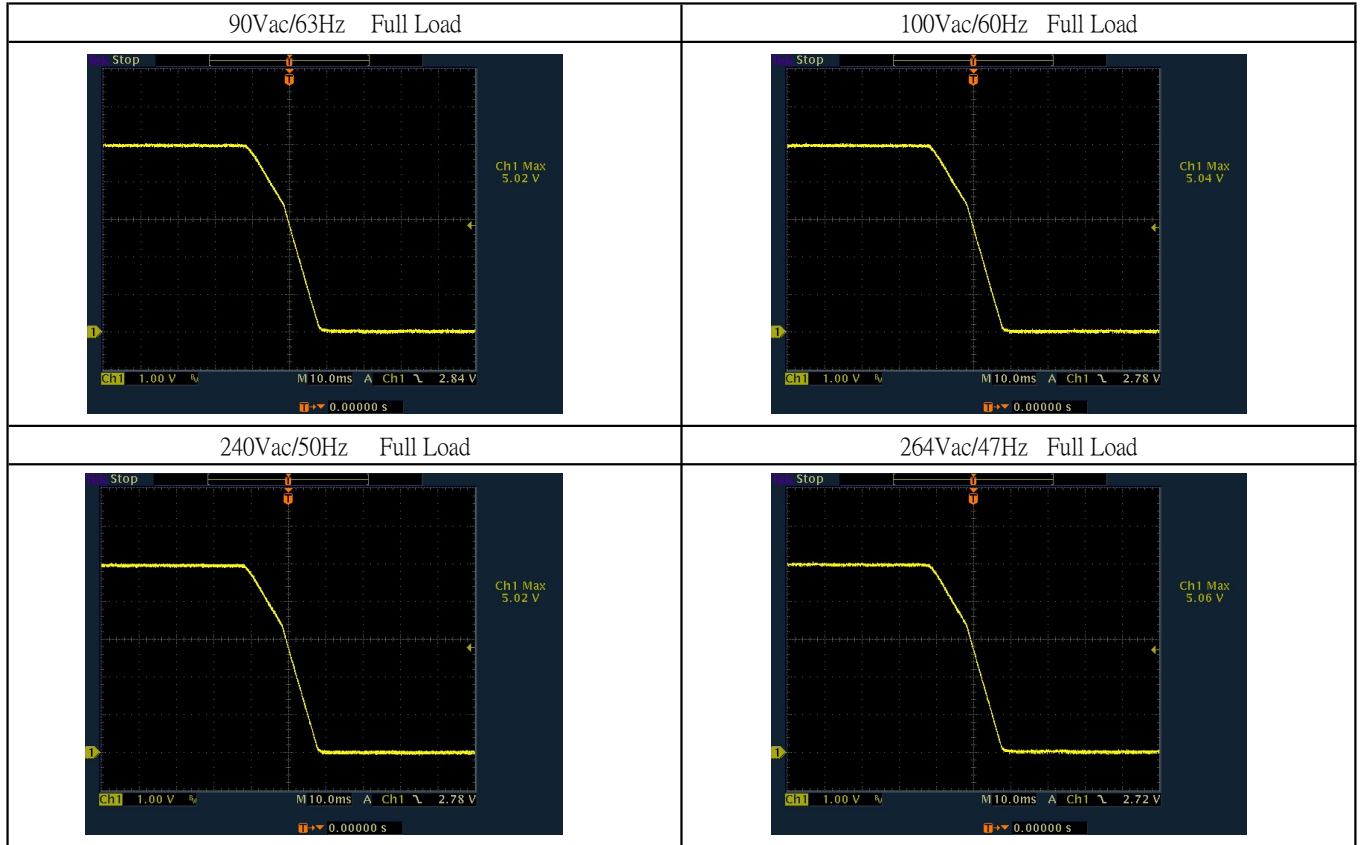
※ Character Condition(特性條件):

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	5.02V	5.04V	5.02V	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	0.132	-	0.054	-	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.