

5302A

交流電源供應器



AC SOURCE



博計電子股份有限公司

新北市新店區寶中路88號8樓

TEL : 886-2-2918-2620

FAX : 886-2-2912-9870

[http : //www.prodigit.com.tw](http://www.prodigit.com.tw)

E-mail : carry@prodigit.com.tw





背面圖

特 性

- 大型LCD面板可同時顯示：電壓(V)、電流(A)或湧浪(Inrush)電流、功率(W)、瓦時(WH)、頻率(Hz)、功率因素(PF)、開機/關機角度或TRIAC調光角度
- 高精度高解析度的Green Power功率量測，輕易測量量出0.001W~270W之功率
- 即時分析DUT的輸出/輸入功率及效率*
- 高精度電錶可量測外部電源(市電或AC Source)，並控制外部電源輸出的開機/關機角度，可測試達200A之湧浪電流

- 5302A的開機/關機角度控制為 0° ~360°
- 可模擬TRIAC (Leading or Trailing edge) 的電源輸出
- 提供IEC/EN 61000-4-11的法規測試
- 10組測試參數及狀態的儲存功能
- RS232為標準介面
- 過電流、過功率、過溫度及短路保護

註*：DUT輸出端須使用Prodigit電子負載

● 圖示一 輸入/輸出功率及效率量測：

當5302A與Prodigit的電子負載搭配使用時，可以即時自動分析並顯示出待測物的效率及輸出入功率



● 圖示二 模擬TRIAC的電源輸出

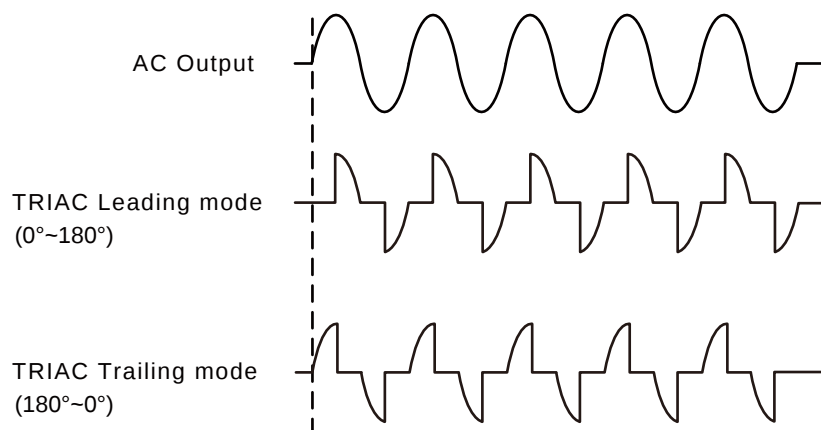


Table 1 – Preferred test level and durations for voltage dips

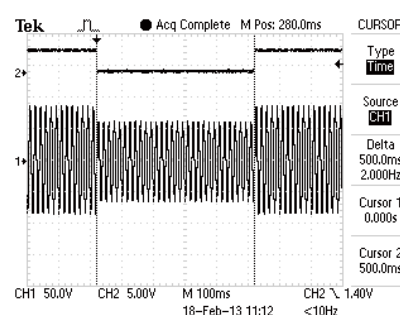
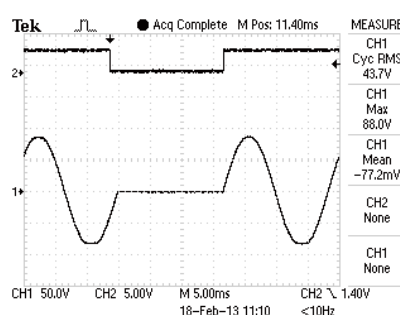
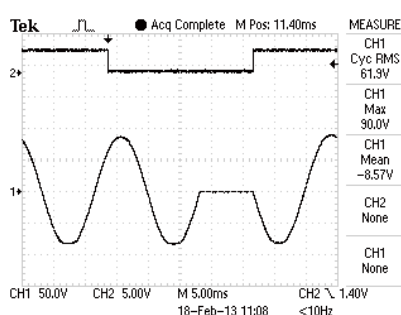
Class ^a	Test level and durations for voltage dips (i_s) (50 Hz/60 Hz)				
Class 1	Case-by-case according to the equipment requirements				
Class 2	0 % during ½ cycle	0 % during 1 cycle	70 % during 25/30 ^c cycles		
Class 3	0 % during ½ cycle	0 % during 1 cycle	40 % during 10/12 ^c cycles	70 % during 25/30 ^c cycles	80 % during 250/300 ^c cycles
Class X ^b	X	X	X	X	X

^a Classes as per IEC 61000-2-4; see Annex B.

^b To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2.

^c "25/30 cycles" means "25 cycles for 50 Hz test" and "30 cycles for 60 Hz test".

Class2



Class3

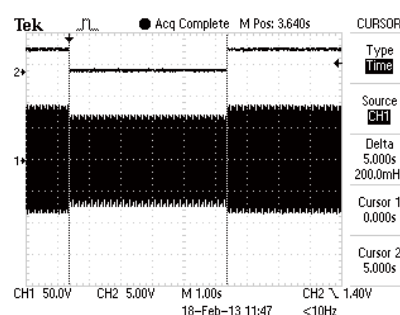
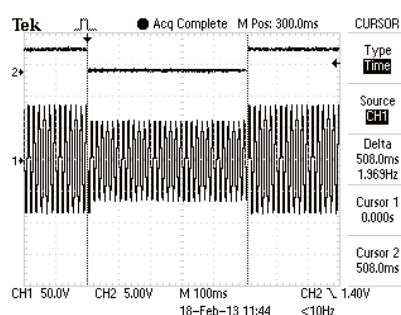
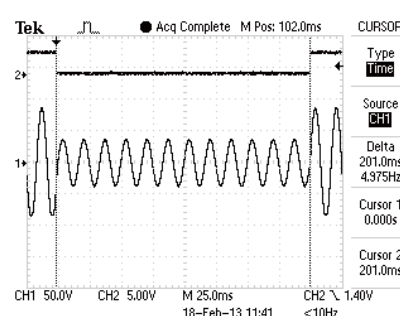
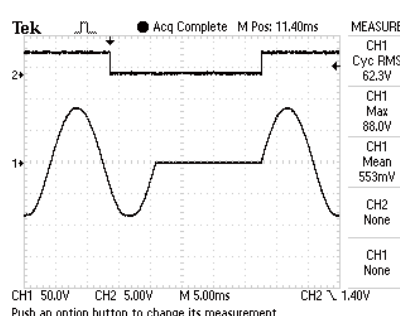
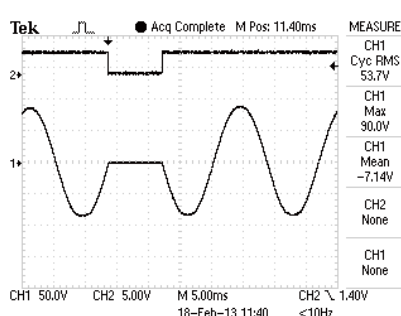


Table 2 – Preferred test level and durations for short interruptions

Class ^a	Test level and durations for short interruptions (t_s) (50 Hz/60 Hz)
Class 1	Case-by-case according to the equipment requirements
Class 2	0 % during 250/300 ^c cycles
Class 3	0 % during 250/300 ^c cycles
Class X ^b	X

^a Classes as per IEC 61000-2-4; see Annex B.

^b To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2.

^c "250/300 cycles" means "250 cycles for 50 Hz test" and "300 cycles for 60 Hz test".

Class 2 and Class 3

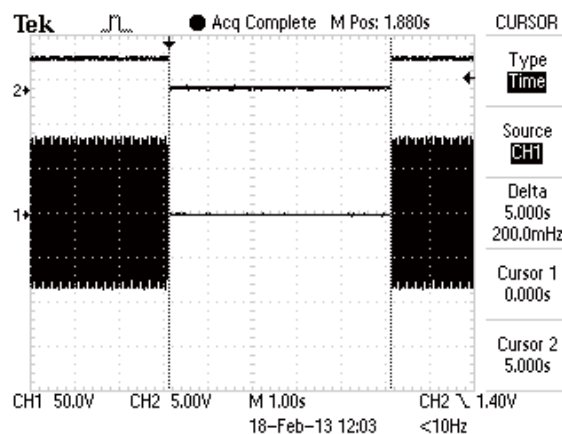
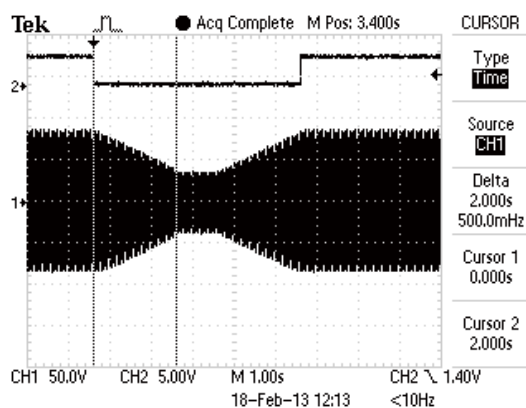


Table 3 – Timing of short-term supply voltage variations

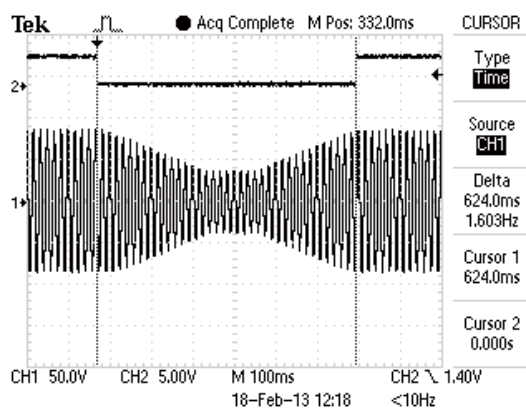
Voltage test level	Time for decreasing voltage (t_d)	Time at reduced voltage (t_s)	Time for increasing voltage (t_i) (50 Hz/60 Hz)
70 %	Abrupt	1 cycle	25/30 ^b cycles
X ^a	X ^a	X ^a	X ^a

^a To be defined by product committee.

^b "25/30 cycles" means "25 cycles for 50 Hz test" and "30 cycles for 60 Hz test".



Fall Time 2S , Reduced Time 1S , Rise Time 2S



Fall Time 250mS , Reduced Time 120mS , Rise Time 250S

規 格

MODEL	5302A
Power Rating	270VAmx
Type	Linear
Voltage Rating	10~150Vrms / 160~305Vrms
Accuracy	0.2% ± 0.2% F.S.
Resolution	0.1V / 0.2V
Distortion	THD ≤ 0.5% (R load)
Load Regulation	±0.5%±0.5V
Line Regulation	±0.5%±0.5V
Current Rating	2.0Arms / 1.0Arms
Frequency	40~70Hz
Resolution	0.1Hz
Triac Mode	Leading / Trailing Edge
Range	0~180°
Resolution	1°
Angle(ON/OFF)	0~360°
Resolution	1°
PQT (IEC61000-4-11)	OCP,OTP,OPP,Short
Protection	Dip、Interrupt、Variation
Measurements	
ACV meter(Vrms)	150V / 305V
Resolution	0.1V
Accuracy	±0.5% of (Reading + Range)
ACA meter(Arms)	10mA / 20mA / 200mA / 2000mA / 200A (for Inrush)
Resolution	0.01mA / 0.01mA / 0.1mA / 1mA / 0.1A (for Inrush)
Accuracy	±0.5% of (Reading + Range) / ±2% of (Reading + Range) (for Inrush)
ACW meter	1.5W / 3W / 6W / 30W / 60W / 300W / 600W
Resolution	0.001W / 0.001W / 0.001W / 0.01W / 0.01W / 0.1W / 0.1W
Accuracy	±0.5% of (Reading + Range)
DCW meter	Same as 3310F series
PF meter	±0.01~1.00
Resolution	0.01
Accuracy	1% of (Reading + Range)
Frequency meter	40~70 Hz
Resolution	0.1 Hz
Accuracy	± 0.1 Hz
Efficiency meter	Corresponds to ACW and DCW, ±1% of (Reading + Range)
Integration Meas. Power	From 0.000mWH~999.9KWH
Integration Meas. Time	1 Sec.~99H59M59S
Inrush Delay/Period	0~99.9mS / 0.1~99.9S
Meter Meas. Rate Interval time	100mS / 200mS / 500mS / 1S / 5S / 10S
Interface	RS-232
External AC Source	300Vrms / 2A / 600VA

輸入電源：115/230 Vac ±10%，50/60Hz

冷卻方式：強制風扇冷卻

訂 購 方 式

- **5302A** 交流電源分析儀（270VA,1Ø）