

5302A AC Power Source with Power/Energy Analyzer (270VA, 1 ϕ)



Rear Panel

Features

- Large LCD panel can display simultaneously : Voltage (V), Current (A) or Surge (Inrush) current, Power (W), Watt Hour (WH), Frequency (Hz), Power Factor (PF), Power ON / OFF angle or the angle of TRIAC dimming.
- High accuracy and high resolution Green Power measurement can easily measure the power 0.001W ~ 270W.
- Real-time analysis of the DUT input / output power and efficiency *
- Precision meter can measure the external power supply (utility or AC Source), and control power ON/OFF angle of the external power output, even can test the inrush current up to 200A.
- 5302A power ON / OFF angle control is 0° ~ 360°
- Power output of TRIAC (Leading or Trailing edge) can be simulated.
- IEC/EN 61000-4-11 Regulatory tests.
- 10 sets test parameter and status store function.
- RS232 standard interface.
- Protections against I, W, Short and °C.

Note * means DUT output terminal to be used Prodigit electronic load.

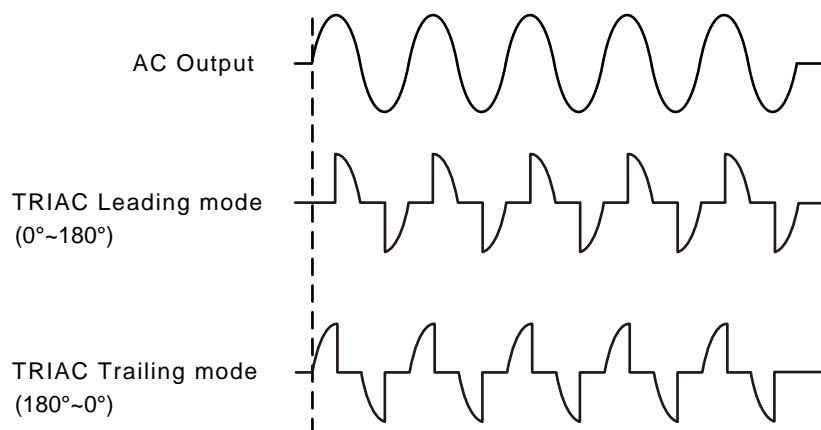
Applications

- Figure1 shows Input/Output power and efficiency measurement :

When 5302A AC Power Source is used with Prodigit Electronic Load, it can instantly and automatically analyze and display the efficiency and input/output power of the DUT.



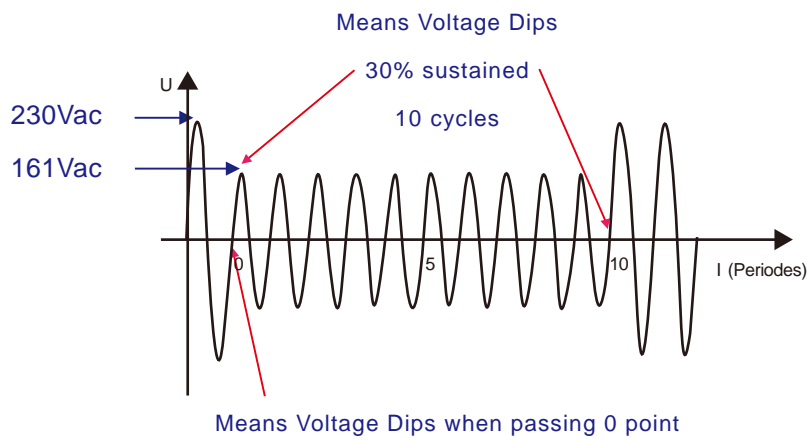
- Figure2 shows Simulation of TRIAC power output



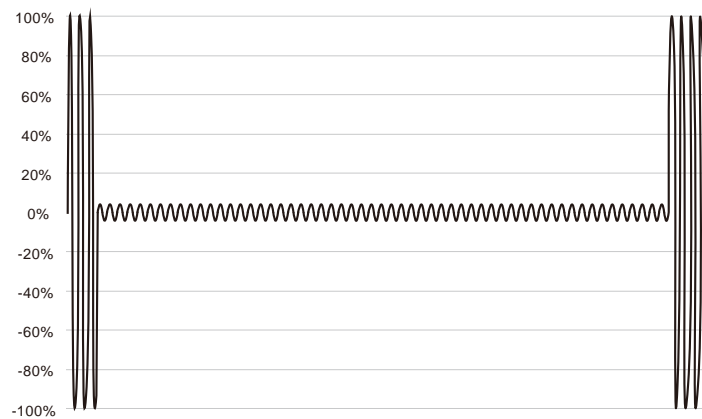
Applications

- IEC/EN 61000-4-11 Regulatory Tests.

1. Voltage Dips

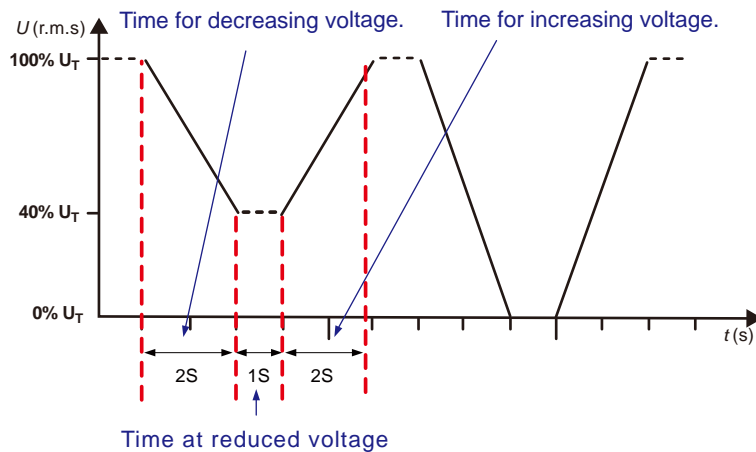


2. Short Interruptions



It shall not exceed 1 minute when power short interruptions (time disappear).

3. Voltage Variations Immunity Tests



Specifications

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°
Protection	OCP,OTP,OPP,Short
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

Input AC Power : 115/230 Vac ±10% , 50/60Hz

Cooling : Advanced Fan Cooled

Order Information

- ▶ **5302A** AC Power Source with Power/Energy Analyzer (270VA ,1Ø)