

RENTAL EAC-5302A

AC SOURCE WITH POWER ANALYSER



The EAC-5302A is a linear single phase AC Power Supply with built in Power Analyser. This integrated approach provides users with real time analysis of a device under test.

A large LCD panel screen can display 9 different key power measurements including power factor, inrush current and watt-hours. External power supplies can be accurately measured, with inrush currents tests up to 200A possible. The front panel memory function allows frequently used test parameters to be stored and quickly recalled. The unit is built with an RS-232 remote control interface.

- + OT, OC, OP and Short Circuit Protection
- + 0 360° Power ON/OFF Angle Control
- + Measurements from 1mW to 270W
- + EN 61000-4-11 Regulatory Tests

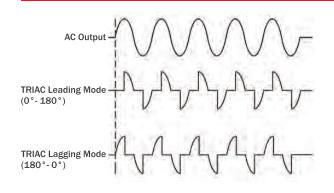
TEST APPLICATIONS

When used in conjunction with an electronic load from ETPS, the EAC-5302A provides instant values for the input/output power and efficiency of a device under test as shown below left. A dedicated application mode can simulate the power output of devices which use a TRIAC, such as light dimmers or small motor controls.

INPUT/OUTPUT POWER & EFFICIENCY MEASUREMENT

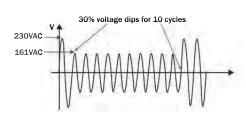


SIMULATION OF TRIAC POWER OUTPUT

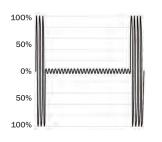


The EAC-5302A also performs all EN 61000-4-11 regulatory tests. These regulations define the requirements and conditions to test how power systems behave under changes to the AC mains voltage. It is frequently used to show compliance. The three standard tests are voltage dips, short interruptions and voltage variation immunity tests.

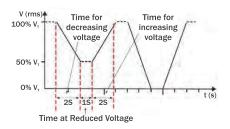
VOLTAGE DIPS



SHORT INTERRUPTIONS



VOLTAGE VARIATION IMMUNITY TESTS





SELECTION	TABLE				
Part Number	Maximum Power	Output Voltage (Range 1)	Output Voltage (Range 2)	Output Current (Range 1)	Output Current (Range 2)
EAC-5302A-r	270VA	10 - 150 Vrms	160 - 305 Vrms	0 - 2A	0 - 1A

TECHNICAL DATA

Voltage Accuracy0.2% ± 0.2% of full sVoltage ResolutionRange 1 : 0.1V, rangeDistortion<0.5% THD (with a rLoad Regulation± 0.5% ± 0.5VLine Regulation± 0.5% ± 0.5VMaximum Current (Range 1)2ArmsMaximum Current (Range 2)1ArmsFrequency40-70HzFrequency Resolution0.1HzTriac ModeLeading / laggingTriac Mode Range0-180°Triac Mode Resolution1°Angle [On/Off]0 - 360°Angle Resolution1°ProtectionOver current, over the Cooling	s, range 2 : 160 - 305Vrms cale 2 : 0.2V	
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ACV Meter (Vrms) Range 1: 150V, range	emperature, over power, short circuit	
ACV Meter (Vrms) Range 1: 150V, range		
ACV Meter (Vrms) Range 1: 150V, range	EASUREMENTS	
ACV Meter Resolution 0.1V	2: 305V	
ACV Meter Accuracy ± 0.5% of reading +	range	
ACA Meter (Arms) 10MA / 20MA / 200	MA / 2A / 200A (for inrush)	
ACA Meter Resolution 0.01mA / 0.01mA / 0.	.1mA / 1mA / 0.1A (for inrush)	
ACA Meter Accuracy ± 0.5% of reading +	range / \pm 2% of reading + range (for inrush)	
ACW Meter 1.5W / 3W / 6W / 30	W / 60W / 300W / 600W	
ACW Meter Resolution 0.001W / 0.001W / 0	.001W / 0.01W / 0.1W / 0.1W	
ACW Meter Accuracy ± 0.5% of reading +	range	
DCW Meter Same as ELP-3310F s	eries (recommended electronic load)	
PF Meter ± 0.01 to 1		
PF Meter Resolution 0.01		
PF Meter Accuracy 1% of reading + range	je	
Frequency Meter 40 - 70Hz		
Frequency Meter Resolution 0.1Hz		
Frequency Meter Accuracy ± 0.1Hz		
	N and DCW, ±1% of reading + range	
Integration Meas. Power From 0.000mWH to	999.9kWH	
Integration Meas. Time. From 1 second to 99	bours E0 minutes and E0 seconds	
Inrush Delay/ Period 0 - 99.9MS / 0.1 - 99	hours 59 minutes and 59 seconds	
Meter Meas. Rate Interval Time 100ms / 200ms / 50		
Interface RS-232	9S	
External AC Source 300Vrms / 2A / 600	9S	

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.





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