

APS-7000 Series



NEW



The APS-7000 Series is a precision AC power source, but also a powerful analyzer, containing abundant features for the testing and characteristic analysis of power supplies, electronic devices, components and modules. In addition to AC power Source, the APS-7000 Series is fully programmable to simulate different power outputs. Sequence can be created using arbitrary waveforms as well as voltage or frequency sweep. Voltage, current, power, frequency, load power factor, load crest factor can be monitored in real time. All parameters and values as well as measurement results are displayed simultaneously on the 4.3 inch TFT-LCD screen.

The APS-7000 Series comprises nine measurement and test functions (Vrms, Irms, F, Ipk, W, VA, PF, Ipk hold, CF), and provides user interface similar to that of AC Power Meter. The APS-7000 Series, via switching many sets of current levels to increase small current measurement resolution, is ideal for the LED industry and standby mode power consumption test. Under the ARB mode, the APS-7000 Series provides waveforms, including SINE waveform, Triangle waveform, Staircase waveform, Clipped Sinewave, Crest factor waveform, Surge waveform, and Fourier series to meet the requirement of simulating abnormal input power waveform test of different industry.

Ten sets of Preset allow users to store ten settings; Power ON Output setting allows Sequence, Simulate, and Program to automatically execute output after the equipment power is on.

To meet the test criteria of line voltage fluctuation often seen in consumer electronics, the APS-7000 Series features five methods to cope with special purpose or abnormal voltage, frequency, and phase; ten sets of the Simulate mode simulate power outage, voltage rise, and voltage fall; ten sets of the Sequence mode allow users to define parameters and produce sine wave by editing steps; ten sets of the Program mode can edit AC waveform output and define the ceiling and floor level of measurement items for different DUT; Ramp Control allows users to set the variation speed for output voltage rise and fall; Surge/Dip Control simulates DUT's input power producing a Surge or Dip voltage overlapping with output voltage waveform at a specific time. Ethernet Port, on the rear panel of the series, can be used for remote program control; Sync Output Socket provides external 10V sync output; Signal Output Connector provides monitor of Program execution results. The APS-7000 Series also provides Trigger In/Out and Output on/off remote control functions from J1 connector on the rear panel.

FEATURES

- 4.3" large LCD Display
- Measurement Function : Voltage, Current, Power (W), Frequency, Power Factor, Crest Factor, Apparent Power (VA), Ipeak, Ipk hold
- Surge/Dip Control Mode
- Frequency : 45.0~500.0Hz (Standard); 45.0~999.9Hz(Opt)
- Voltage Range (RMS) : 155V (Std)/ 310V (Std)/600V (Opt)
- OCP/OTP/OHP Protection
- 10sets of Saves/Recall Sequence Memory with 255 step for each memory
- Arbitrary Waveform Function
- Standard Interface : USB/LAN
- Optional Interface : RS-232 & USB CDC/ GPIB



APS-7050 Front



APS-7100 Front



APS-7050 Rear Panel



APS-7100 Rear Panel

APPLICATIONS

- The Broad Power Output Range of The Series is Ideal for Various Power Supply Manufacturers
- The Development of Electronic Components and Testing Applications for Manufacturers
- Incoming Quality Control and R & D Applications

SPECIFICATIONS			
Model	APS-7050		APS-7100
Power Rating	500VA		1000VA
Output Voltage	0 ~ 310.0 Vrms		0 ~ 310.0 Vrms
Output Frequency	45.00 ~ 500.0 Hz		45.00 ~ 500.0 Hz
Maximum Current (r.m.s) 0~155Vrms	4.2A		8.4A
0~310Vrms	2.1A		4.2A
Maximum Current (peak) 0~155Vrms	16.8A		33.6A
0~310Vrms	8.4A		16.8A
Total Harmonic Distortion (THD)	≤0.5% at 45 ~ 500Hz (Resistive Load)		
Crest Factor	≥4		
Line regulation	0.1% (% of full scale)		
Load regulation	0.5% (% of full scale)		
Response time	<100us		
SETTING			
Voltage	Range	155Vrms/310Vrms/Auto	
	Resolution	0.01V at 0.00 ~ 99.99Vrms; 0.1V at 100.0 ~ 310.0Vrms	
	Accuracy	±(0.5% of setting+2 counts)	
Frequency	Range	45 ~ 500Hz	
	Resolution	0.01Hz at 45.00 ~ 99.99Hz/0.1Hz at 100.0 ~ 500.0Hz	
	Accuracy	±0.02% of setting	
Power On/Off Phase Angle	Range	0 ~ 359°	
	Resolution	1°	
	Accuracy	±1°(45 ~ 65Hz)	
MEASUREMENT			
Voltage(RMS)	Range	0.20 ~ 38.75Vrms/38.76 ~ 77.50 Vrms/77.51 ~ 155.0Vrms/155.1 ~ 310.0Vrms	
	Resolution	0.01V at 0.00 ~ 99.99Vrms; 0.1V at 100.0 ~ 310.0Vrms	
	Accuracy	±(0.5% of reading + 2 counts)	
Frequency	Range	45 ~ 500Hz	
	Resolution	0.01Hz (at 45Hz~99.99Hz)/0.1Hz (at 100Hz~500.0Hz)	
	Accuracy	±0.1Hz	
Current(RMS)	Range	2.00 ~ 70.00mA/60.0 ~ 350.0mA/0.300 ~ 3.500A/3.00 ~ 17.5A	
	Resolution	0.01mA, 0.1mA, 0.001A, 0.01A	
	Accuracy	±(0.6% of reading+5 counts); 2.00~350.0mA/±(0.5% of reading+5 counts); 0.350~3.500A/±(0.5% of reading+3 counts);3.500~17.50A	
Current(Peak)	Range	0.0 ~ 70.0A	
	Resolution	0.1A	
	Accuracy	±(1% of reading+1 count)	
Power(W)	Resolution	0.01W, 0.1W, 1W	
	Accuracy	±(0.6% of reading + 5 counts); 0.20~99.99W; ±(0.6% of reading + 5 counts); 100.0 ~ 999.9W	
Apparent(VA)	Resolution	0.01VA, 0.1VA, 1VA,	
	Accuracy	±(1% of reading + 5 counts);0.20~99.99VA/±(1% of reading + 5 counts);100.0~999.9VA/±(1% of reading + 2 counts);1000~9999VA	
Power Factor	Range	0.000~1.000	
	Resolution	0.001	
	Accuracy	±(2% of reading + 2 counts)	
GENERAL			
Remote Output Signal	Pass , Fail, Test-in Process, Trigger in, Trigger out , OUT ON / OFF		
Sync Output Signal	Output Signal 10V, BNC type		
Number of Preset	10(0~9 Numeric keys)		
Protection	OCP, OPP, OHP and Alarm		
SEQUENCE / SIMULATION / FUNCTION			
Number of Memories	10 (0 ~ 9 Numeric keys)		
Number of Steps	255 max. (For 1 sequence)		
Step Time Setting	0.01 ~ 99.99S		
Operation Within Step	Constant / Keep / Linear Sweep		
Parameters	Output Range, Frequency, Waveform (Sine Wave Only); On Phase, Off Phase, Term Jump Count (0 ~ 255) jump-to, Branch 1, Branch 2, Trigger Output		
Sequence Control	Start, Stop, Hold, Continue, Branch 1, Branch 2		
ENVIRONMENT CONDITIONS			
Operation Temperature	0 ~ +40°C		
Storage Temperature	-10 ~ +70°C		
Operating Temperature	20 ~ 80% RH (No Condensation)		
Storage Humidity	80% RH or less(No Condensation)		
PC REMOTE CONTROL INTERFACE			
Standard Interface	USB Host/LAN		
Optional Interface	GPIB/RS232 & USB CDC		
Input Power Source	1φ AC 100/200Vac ±10% (For Japan); 1φ AC 115/230Vac ±15%(For others country excluding Japan)		
DIMENSIONS			
	430(W) x 88(H) x 400(D) mm; Approx. 24Kg	430(W) x 88(H) x 560(D) mm; Approx. 38Kg	

Specifications subject to change without notice. APS-7000GD1DH

ORDERING INFORMATION
APS-7050 500VA Programmable AC Power Source
APS-7100 1000VA Programmable AC Power Source
ACCESSORIES
CD ROM (User Manual, Programming Manual) x 1
Power Cord for UL/CSA or PSE (Region Dependent)
Mains Terminal Cover Set
GTL-123 Test Leads

ASSESSORIES
APS-003 Output Voltage Capacity : 0 ~ 600Vrms
APS-004 Output Frequency Capacity : 45~999.9Hz
OPTIONAL ASSESSORIES
APS-001 GPIB Interface Card
APS-002 RS-232/USB Interface Card
GRA-423 APS-7000 Rack Mount Kit

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