

APS-7000 Series



NEW

FEATURES

- 4.3" large LCD Display
- Measurement Function : Voltage, Current, Power, Frequency, Power Factor, Crest Factor, Apparent Power, Ipeak, Ipk hold
- Surge/Dip Control Mode
- Frequency : 45.0 ~ 500.0Hz (Std); 45.0 ~ 999.9Hz (Opt)
- Voltage Range (RMS) : 155V (Std)/310V (Std)/600V (Opt)
- OVP/OCP/OTP Protection
- Simulate Mode, Sequence Mode, Program Mode
- Ramp Control Function
- ARB (Function Waveform) Mode
- 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
- Small AC Current Measurement Applications



The APS-7000 Series is an AC power source, containing abundant features for the testing and characteristic analysis of power supplies, electronic devices, components and modules. The APS-7000 Series is fully programmable to simulate different power outputs. 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 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, internal circuit design 4 sets of current range to improve measurement resolution, is ideal for the LED industry and standby mode power consumption test. Under the ARB (function waveform) 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.

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; 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.

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
OPT. APS-003 (r.m.s) 0~600Vrms	1.05A@480V	2.1A@480V
OPT. APS-003 (peak) 0~600Vrms	4.2A	8.4A
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 each sequence)	
Step Time Setting	0.01 ~ 99.99S	
Operation Within Step Parameters	Constant / Keep / Linear Sweep 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 115/230Vac ±15%	
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.

PA-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 (Region Dependent), Mains Terminal Cover Set, GTL-123 Test Lead

OPTIONAL ASSESSORIES

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

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