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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- ▶ high - quality
- ▶ moderate prices
- ▶ excellent precision

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APS-7000E Series



FEATURES

- 4.3" large LCD Display
- Output Capacity:
APS-7050E(500VA, 310Vrms, 4.2/2.1Arms)
APS-7100E(1000VA, 310Vrms, 8.4/4.2Arms)
- Measurement Function :
Voltage, Current, Power, Frequency, Power Factor, Ipeak
- Reverse Current Alarm Function
- 10 Sets of The Test Mode Simulate Power Transient Output
- 10 Sets of Preset Allow Users to Store Ten Settings
- OCP/OPP/OTP Protection
- Variable Voltage, Frequency and Current Limiter
- Universal Power Inlet



GW Instek launches the APS-7000E Series the economy version of the APS-7000 Series programmable AC power source. With the height of 2U, the maximum rated output for APS-7050E is 500VA, 310Vrms, 4.2Arms and APS-7100E is 1000VA, 310Vrms, 8.4Arms.

The output frequency range of the series is 45~500Hz. The series is ideal for the test and development of DC power supply devices, consumer electronics, automotive electronics and electronic components.

The APS-7000E Series comprises six measurement and test functions (Vrms, Irms, F, Ipk, W, PF), and provides user interface similar to that of AC Power Meter. The APS-7000E 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. Ten sets of Preset allow users to store ten settings.

To meet the test criteria of line voltage fluctuation often seen in consumer electronics, the APS-7000E Series not only provides a stable AC power source but also features the Test mode to satisfy special or abnormal voltage and frequency variation demands. Ten sets of the Test mode simulate power outage, voltage rise, and voltage fall. The APS-7000E Series that simulates waveforms of city power grid's transient changes is suitable for verifying electronics products operated under abnormal power source.

The APS-7000E Series is the economy version of the APS-7000 Series. If communications interface and larger voltage/frequency are required, please refer to the APS-7000 Series.



Europe Type Output Outlet



APS-7100E Rear Panel



APS-7050E 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

SPECIFICATIONS				
Model	APS-7050E		APS-7100E	
Power Rating	500VA		1000VA	
Output Voltage	0 ~ 155Vrms/0 ~ 310.0 Vrms		0 ~ 155Vrms/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	
Maximum Current (peak)	0~310Vrms	2.1A	4.2A	
	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	0.3% (% of full scale)			
Response Time	<100 μs			
Reverse Current	30% of Maximum Output RMS Current (Continue); 100% of Maximum Output RMS Current (Within 3 minutes)			
SETTING				
Voltage	Range	0 ~ 155Vrms/0 ~ 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		
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 ±(0.6% of reading+2 counts); 1000~9999W		
Power Factor	Resolution	0.001		
	Accuracy	±(2% of reading + 2 counts)		
GENERAL				
Number of Preset	10(0~9 Numeric keys)			
Protection	OCP, OPP, OTP and Alarm			
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)			
AC INPUT				
Input Power Source	1φ AC 115/230Vac ±15%			
DIMENSIONS & WEIGHT				
	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. PS-7000EGD2DH

ORDERING INFORMATION	
APS-7050E	500VA AC Power Source
APS-7100E	1000VA AC Power Source

ACCESSORIES
CD ROM (User Manual x 1), Power Cord (Region Dependent), Mains Terminal Cover Set, GTL-123 Test Lead
OPTIONAL ASSESSORIES
GRA-423 Rack Mount Kit (APS-7000E Series)

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