

APS-7000 Specifications

The specifications apply when the APS-7000 is powered on for at least 30 minutes under +20°C~+30°C.


APS-7050

APS-7100

APS-7200

APS-7300

Model		APS-7050	APS-7100	APS-7200	APS-7300
Power Rating		500VA	1000VA	2000VA	3000VA
Output Voltage		0 ~ 155Vrms, 0 ~ 310Vrms			
Output Frequency		45.00 ~ 500.0 Hz			
Max. Current(rms) *1	0 ~ 155 Vrms	4.2A	8.4A	16.8A	25.2A
	0 ~ 310 Vrms	2.1A	4.2A	8.4A	12.6A
Max. Current (peak)	0 ~ 155 Vrms	16.8A	33.6A	67.2A	100.8A
	0 ~ 310 Vrms	8.4A	16.8A	33.6A	50.4A
OPT. APS-003(rms) *6	0 ~ 600 Vrms	1.05A	2.1A	4.2A	6.3A
OPT. APS-003(peak)	0 ~ 600 Vrms	4.2A	8.4A	16.8A	25.2A
Total Harmonic Distortion (THD) *2		≤ 0.5% at 45 ~ 500.0Hz (Resistive Load)			
Crest factor		≤ 4			
Line regulation		0.1% (% of full scale)			
Load regulation		0.3% (% of full scale)			
Response time		< 100μs			
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 ~ 500 Hz	
	Resolution	0.01Hz at 45.00 ~ 99.99Hz 0.1Hz at 100.0 ~ 500.0Hz	
	Accuracy	± 0.02% of Setting	
OPT. APS-004	Range	45 ~ 999.9Hz	
	Resolution	0.01Hz at 45.00 ~ 99.99Hz 0.1Hz at 100.0 ~ 999.9Hz	
	Accuracy	± 0.02% of Setting	
Power on/off phase angle	Range	0 ~ 359°	
	Resolution	1°	
	Accuracy	± 1° (Only 45 ~ 65Hz)	
Measurement *3			
Voltage (rms)	Range	0.20 ~ 38.75Vrms 38.76 ~ 77.50Vrms 77.51 ~ 155.0Vrms 155.1 ~ 310.0Vrms	
	Resolution	0.01V at 0.00 ~ 99.99Vrms 0.1V at 100.0 ~ 310.0Vrms	
	Accuracy *4	± (0.5% of reading + 2 counts)	
Frequency	Range	45 ~ 500Hz	
	Resolution	0.01Hz at 45.00 ~ 99.99Hz 0.1Hz at 100.0 ~ 500.0Hz	
	Accuracy *5	± 0.1Hz	
Current (rms)	Range	2.00 ~ 70.00mA 60.0 ~ 350.0mA 0.300 ~ 3.500A 3.00 ~ 17.50A	0.200 ~ 3.500A 3.00 ~ 35.00A
	Resolution	0.01mA 0.1mA 0.001A 0.01A	0.001A 0.01A
	Accuracy	± (0.6% of reading + 5 counts) , 2.00 ~ 350.0mA ± (0.5% of reading + 5 counts) , 0.300 ~ 3.500A ± (0.5% of reading + 3 counts) , 3.000 ~ 17.50A	± (0.5% of reading + 5 counts) , 0.200 ~ 3.500A ± (0.5% of reading + 3 counts) , 3.00 ~ 35.00A
Current (peak)	Range	0.0 ~ 70.0A	0.0 ~ 140.0A
	Resolution	0.1A	0.1A
	Accuracy	± (1% of reading + 1 count)	± (1% of reading + 1 count)

Power (W)	Resolution	0.01W 0.1W 1W	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	± (0.6% of reading + 5counts) , 0.2 ~ 999.9W ± (0.6% of reading + 2counts) , 1000 ~ 9999W
Apparent Power (VA)	Resolution	0.01VA 0.1VA 1VA	0.1VA 1VA
	Accuracy	± (1% of reading + 7 counts) , 0.20 ~ 99.99VA ± (1% of reading + 7 counts) , 100.0 ~ 999.9VA ± (1% of reading + 5 counts) , 1000 ~ 9999VA	± (1% of reading + 7 counts) , 0.2 ~ 999.9VA ± (1% of reading + 5 counts) , 1000 ~ 9999VA
Power Factor	Range	0.000~ 1.000	
	Resolution	0.001	
	Accuracy	±2% reading + 2 counts	
General			
Remote output signal	Pass, Fail, Test-in Process, Trigger in, Trigger out, OUT ON/OFF		
Sync output signal	Output Signal 10 V, BNC Type		
Number of Preset	10 (0~9 numeric keys)		
Protection	OCP, OPP, OTP and Alarm		
Trigger Out	Maximum low level output = 0.8V Minimum high level output = 2V Maximum source current = 8mA.		
Trigger In	Maximum low level input voltage = 0.8V Minimum high level input voltage = 2.0V Maximum sink current = 8mA.		
SEQUENCE / SIMULATION FUNCTION			
Number of Memories	10 (0~9 numeric keys)		
Number of Steps	255 max. (for 1 sequence)		
Step Time Setting Range *9	0.01 ~ 999.99 s		
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		
AC Input			

Phase	Single Phase				
Input Voltage	115/230Vac ± 15%		230Vac ± 15%		
Input Frequency	50/60Hz				
Max. Current	16A/8A	32A/16A	32A	50A	
Power Factor	0.7 Typ.				
Environmental Conditions					
Operating temperature range	0 ~ +40 °C				
Storage temperature range	-10 ~ +70 °C				
Operating humidity range	20 ~ 80% RH (no condensation)				
Storage humidity range	80% RH or less (no condensation)				
Interface					
Standard	USB Host, LAN		USB Host, USB CDC, LAN		
Optional	GPIB (APS-001) RS232 / USB CDC (APS-002)		GPIB (APS-001) RS232 (APS-007)		
Dimensions & Weight					
Dimensions (mm)	W	430	430	430	430
	H	88	88	312	400
	D	400	560	650	650
Weight		24kg	38kg	90kg	128kg

Product specifications are subject to change without notice.

The Specifications are not suit for ARB mode.

*1 Maximum output current at working voltage 120Vrms, 240Vrms

*2 45 to 500Hz, 10% or higher of the rated output voltage, the maximum current or lower

*3 All of measurement accuracy is at 23±5°C

*4 In the case of 15 to 155V, 30 to 310V, sine wave, no load

*5 For an output voltage of 75 V to 155 V / 150 V to 310 V, sine wave, no load

*6 Maximum output current at working voltage 480Vrms

*9 Step Time does not guarantee specification.