

ASR-3000 Series

Programmable AC/DC Power Source



Model	ASR-3200	ASR-3300	ASR-3400	ASR-3500	ASR-3400HF
Output Voltage	0 Vrms to 400 Vrms/ 0 V to ± 570 Vdc	0 Vrms to 400 Vrms/ 0 V to ± 570 Vdc	0 Vrms to 400 Vrms/ 0 V to ± 570 Vdc	0 Vrms to 400 Vrms/ 0 V to ± 570 Vdc	0 Vrms to 400 Vrms/ 0 V to ± 570 Vdc
Output Current	20 / 10 A	30 / 15 A	40 / 20 A	50 / 25 A	40 / 20 A
Power Rating	2000 VA	3000 VA	4000 VA	5000 VA	4000 VA
Output Frequency	1.0 Hz to 999.9 Hz	1.0 Hz to 999.9 Hz	1.0 Hz to 999.9 Hz	1.0 Hz to 999.9 Hz	1.0 Hz to 5000 Hz

FEATURES

- * Output Rating: AC 0 Vrms to 400 Vrms, DC 0 V to ± 570 V
- * Output Frequency up to 999.9 Hz (5 kHz for ASR-3400HF only)
- * DC Output (100 % of Rated Power)
- * Measurement Items: Vrms, Vavg, Vpeak, Irms, IpkH, Iavg, Ipeak, P, S, Q, PF, CF
- * Voltage and Current Harmonic Analysis(THDv, THDi)
- * Remote Sensing Capability
- * OCP, OPP, OTP, AC Fail Detection and Fan Fail Alarm
- * Support Arbitrary Waveform Function
- * Output Capacity: 2 kVA/3 kVA/4 kVA/5 kVA
- * Customized Phase Angle for Output On/Off
- * Sequence and Simulation Function(up to 10 sets)
- * Interface(std): USB, LAN, RS-232, GPIB
- * Built-in External Control I/O and External Signal Input
- * Built-in Output Relay Control
- * Memory Function (up to 10 sets)
- * Built-in Web Server

APPLICATIONS

- * Electronic Products/Electronic Component Development Test
- * Automotive Electrical Device Simulation Test
- * Household Appliance Application Test
- * On-board Chargers
- * Server Powers, LED Modules, AC Motors, AC Fans, UPS

The ASR-3000 Series is an AC+DC power source, featuring high-speed DC voltage rising and falling time ($\leq 100 \mu s$). five models of the series : ASR-3200(2 kVA), ASR-3300(3 kVA), ASR-3400/3400HF(4 kVA) and ASR-3500(5 kVA). The series can provide rated power output during AC output and DC output. Ten ASR-3000 Series output modes are available, including 1) AC power output mode (AC-INT Mode), 2) DC power output mode (DC-INT Mode), 3) AC/DC power output mode (AC+DC-INT Mode), 4) External AC signal source mode (AC-EXT Mode), 5) External AC/DC signal source mode (AC+DC-EXT Mode), 6) External AC signal superimposition mode (AC-ADD Mode), 7) External AC/DC signal superimposition mode (AC+DC-ADD Mode), 8) External AC signal synchronization mode (AC-SYNC Mode), 9) External AC/DC signal synchronization mode (AC+DC-SYNC Mode)10) External DC voltage control of AC output mode(AC-VCA).

ASR-3000 Series is ideal for the development of On-board Chargers, Server Powers, LED modules, AC Motors, AC Fans, UPS and various electronic components, as well as for testing applications of automotive electrical equipment and home appliances.

The ASR-3000 Series provides users with waveform output capabilities including 1) Sequence mode generates waveform fallings, surges, sags, changes and other abnormal power line conditions; 2) Arbitrary waveform function allows users to store/upload user-defined waveforms; and 3) Simulate mode simulates power outage, voltage rise, voltage fall, and frequency variations. When the ASR-3000 Series power source outputs, it can also measure Vrms, Vavg, Vpeak, Irms, Iavg, Ipeak, IpkH, P, S, Q, PF, CF, 100th-order Voltage Harmonic and Current Harmonic. In addition, the remote sensing function ensures accurate voltage output, and the Customized Phase Angle for Output On/Off function can set the start and end angles of the voltage output according to the test requirements. The protection limits of V-Limit, Ipeak-Limit and F-Limit can be set according to user requirements. Over voltage limit, OCP, OPP will protect the DUT during the output process. The Fan Fail Alarm function and the AC fail alarm function are also designed in the ASR-3000 Series.

The front panel of the ASR-3000 Series provides a universal socket or a European socket, which allows users to plug and use so as to save wiring time. Since the power socket specification has a maximum current of 15 A, the rear panel of ASR-3000 Series is designed with a current circuit breaker. When the socket current is greater than 15 A, it will automatically open the circuit to protect users. The ASR-3000 Series supports I/O interface and is standardly equipped with USB, LAN, External I/O, RS-232C and GPIB.



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SPECIFICATIONS

		ASR-3200	ASR-3300	ASR-3400	ASR-3500	ASR-3400HF
INPUT RATING (AC rms)						
NOMINAL INPUT VOLTAGE		200 Vac to 240 Vac				
INPUT VOLTAGE RANGE		180 Vac to 264 Vac				
PHASE		Single phase, Two-wire				
NOMINAL INPUT FREQUENCY		50 Hz to 60 Hz				
INPUT FREQUENCY RANGE		47 Hz to 63 Hz				
MAX. POWER CONSUMPTION		2500 VA or less		3750 VA or less		5000 VA or less
POWER FACTOR ^{*1}		200 Vac	0.95 (TYP)			

*1. For an output voltage of 100 V / 200 V (100 V / 200 V range), maximum current, and a load power factor of 1.

AC MODE OUTPUT RATINGS (AC rms)						
VOLTAGE	Setting Range ^{*1}	0.0 V to 200.0 V / 0.0 V to 400.0 V				
	Setting Resolution	0.1 V				
	Accuracy ^{*2}	±(1 % of set + 1 V / 2 V)				
OUTPUT PHASE		Single phase, Two-wire				
MAXIMUM CURRENT ^{*3}	100 V	20 A	30 A	40 A	50 A	40 A
	200 V	10 A	15 A	20 A	25 A	20 A
MAXIMUM PEAK CURRENT ^{*4}	100 V	120 A	180 A	240 A	300 A	160 A
	200 V	60 A	90 A	120 A	150 A	80 A
LOAD POWER FACTOR		0 to 1(leading phase or lagging phase)				
POWER CAPACITY		2000 VA	3000 VA	4000 VA	5000 VA	4000 VA
FREQUENCY	Setting Range	AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz				AC Mode: 40.0 Hz to 5000 Hz, AC+DC Mode: 1 Hz to 5000 Hz
	Setting Resolution	0.01 Hz (1.00 Hz to 99.99 Hz), 0.1 Hz (100.0 Hz to 999.9 Hz)				0.01 Hz (1.00 Hz to 99.99 Hz), 0.1 Hz (100.0 Hz to 999.9 Hz), 1 Hz (1000 Hz to 5000 Hz)
	Accuracy	0.02 % of set (23 °C ± 5 °C)				
	Stability ^{*5}	± 0.005 %				
OUTPUT ON PHASE		0° to 359° variable (setting resolution 1°)				
DC OFFSET ^{*6}		Within ± 20 mV (TYP)				

*1. 100 V / 200 V range

*2. For an output voltage of 20 V to 200 V / 40 V to 400 V, an output frequency of 45 Hz to 65 Hz, no load, and 23 °C ± 5 °C.

*3. For an output voltage of 1 V to 100 V / 2 V to 200 V. Limited by the power capacity when the output voltage is 100 V to 200 V / 200 V to 400 V.

If there is the DC superimposition, the current of AC+DC mode satisfies the maximum current. In the case of lower than 40 Hz, and the power rating temperature, the maximum current will be decrease.

*4. With respect to the capacitor-input rectifying load. Limited by the maximum current.

*5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature.

*6. In the case of the AC mode and 23 °C ± 5 °C.

OUTPUT RATING FOR DC MODE						
VOLTAGE	Setting Range ^{*1}	-285 V to +285 V / -570 V to +570 V				
	Setting Resolution	0.1 V				
	Accuracy ^{*2}	±(1 % of set + 1 V / 2 V)				
MAXIMUM CURRENT ^{*3}	100 V	20 A	30 A	40 A	50 A	40 A
	200 V	10 A	15 A	20 A	25 A	20 A
MAXIMUM PEAK CURRENT ^{*4}	100 V	120 A	180 A	240 A	300 A	160 A
	200 V	60 A	90 A	120 A	150 A	80 A
POWER CAPACITY						
		2000 W	3000 W	4000 W	5000 W	4000 W

*1. 100 V / 200 V range

*2. For an output voltage of -285 V to -28.5 V, +28.5 V to +285 V / -570 V to -57 V, +57 V to +570 V, no load, and 23 °C ± 5 °C.

*3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V. Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.

*4. Limited by the maximum current.

OUTPUT VOLTAGE STABILITY						
LINE REGULATION ^{*1}		0.2 % or less				
LOAD REGULATION ^{*2}		0.5 % or less (0 % to 100 %, via output terminal)				
RIPPLE NOISE ^{*3}		1 Vrms / 2 Vrms (TYP)				

*1. Power source input voltage is 200 V, 220 V, or 240 V, no load, rated output.

*2. For an output voltage of 100 V to 200 V / 200 V to 400 V, a load power factor of 1, stepwise change from an output current of 0 A to maximum current (or its reverse), using the output terminal on the rear panel.

*3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.

OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY						
TOTAL HARMONIC DISTORTION (THD) ^{*1}			< 0.2 % @50/60 Hz		< 0.2 % @50/60 Hz	
			< 0.3 % @<500 Hz		< 0.6 % @<500 Hz	
			< 0.5 % @500.1 Hz to 999.9 Hz		< 0.8 % @500.1 Hz to 999.9 Hz	
					< 1 % @500.1 Hz to 2000 Hz	
OUTPUT VOLTAGE RESPONSE TIME ^{*2}		100 μs (TYP)				< 2 % @2001 Hz to 5000 Hz
EFFICIENCY ^{*3}		80 % or more				

*1. At an output voltage of 50 V to 200 V / 100 V to 400 V, a load power factor of 1, and in AC mode.

*2. For an output voltage of 100 V / 200 V, a load power factor of 1, with respect to stepwise change from an output current of 0 A to the maximum current (or its reverse).

*3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1.

MEASURED VALUE DISPLAY												
VOLTAGE	RMS, AVG Value ^{*1}	Resolution	0.1 V									
		Accuracy ^{*2}	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.5 \text{ V} / 1 \text{ V})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 1 \text{ V} / 2 \text{ V})$									
	PEAK Value	Resolution	0.1 V									
		Accuracy	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 1 \text{ V} / 2 \text{ V})$									
CURRENT	RMS, AVG Value	Resolution	0.01 A									
		Accuracy ^{*3}	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.1 \text{ A} / 0.05 \text{ A})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 0.2 \text{ A} / 0.1 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.15 \text{ A} / 0.08 \text{ A})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 0.3 \text{ A} / 0.15 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.2 \text{ A} / 0.1 \text{ A})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 0.4 \text{ A} / 0.2 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.25 \text{ A} / 0.13 \text{ A})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 0.5 \text{ A} / 0.25 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(0.5 \% \text{ of reading} + 0.2 \text{ A} / 0.1 \text{ A})$ For all other frequencies: $\pm(0.7 \% \text{ of reading} + 0.4 \text{ A} / 0.2 \text{ A})$					
			Resolution	0.1 A								
	PEAK Value	Accuracy ^{*4}	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 0.5 \text{ A} / 0.25 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 0.8 \text{ A} / 0.4 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 1 \text{ A} / 0.5 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 1.3 \text{ A} / 0.65 \text{ A})$	For 45 Hz to 65 Hz and DC: $\pm(2 \% \text{ of reading} + 1 \text{ A} / 0.5 \text{ A})$					
		Resolution	1 W									
	POWER	Active (W)	Accuracy ^{*5}	$\pm(2 \% \text{ of reading} + 2 \text{ W})$		$\pm(2 \% \text{ of reading} + 3 \text{ W})$	$\pm(2 \% \text{ of reading} + 4 \text{ W})$	$\pm(2 \% \text{ of reading} + 5 \text{ W})$	$\pm(2 \% \text{ of reading} + 4 \text{ W})$			
Resolution			1 VA									
Apparent (VA)		Accuracy ^{*5,6}	$\pm(2 \% \text{ of reading} + 2 \text{ VA})$		$\pm(2 \% \text{ of reading} + 3 \text{ VA})$	$\pm(2 \% \text{ of reading} + 4 \text{ VA})$	$\pm(2 \% \text{ of reading} + 5 \text{ VA})$	$\pm(2 \% \text{ of reading} + 4 \text{ VA})$				
		Resolution	1 VAR									
	Reactive (VAR)	Accuracy ^{*5,7}	$\pm(2 \% \text{ of reading} + 2 \text{ VAR})$		$\pm(2 \% \text{ of reading} + 3 \text{ VAR})$	$\pm(2 \% \text{ of reading} + 4 \text{ VAR})$	$\pm(2 \% \text{ of reading} + 5 \text{ VAR})$	$\pm(2 \% \text{ of reading} + 4 \text{ VAR})$				
		Resolution	0.000 to 1.000									
LOAD POWER FACTOR		Range	0.001									
		Resolution	0.00 to 50.00									
LOAD CREST FACTOR		Range	0.01									
		Resolution	Up to 100th order of the fundamental wave									
HARMONIC VOLTAGE EFFECTIVE VALUE (RMS) PERCENT (%) (AC-INT and 50/60 Hz only)		Full Scale	200 V / 400 V, 100%									
		Resolution	0.1 V, 0.1%									
		Accuracy ^{*8}	Up to 20th : $\pm(0.2 \% \text{ of reading} + 0.5 \text{ V} / 1 \text{ V})$ 20th to 100th : $\pm(0.3 \% \text{ of reading} + 0.5 \text{ V} / 1 \text{ V})$									
HARMONIC CURRENT EFFECTIVE VALUE (RMS) PERCENT (%)		Range	Up to 100th order of the fundamental wave									
		Full Scale	20 A / 10 A, 100 %		30 A / 15 A, 100 %		40 A / 20 A, 100 %		50 A / 25 A, 100 %		40 A / 20 A, 100 %	
		Resolution	0.01 A/0.1 A, 0.1%									
		Accuracy ^{*3}	Up to 20th $\pm(1 \% \text{ of reading} + 0.4 \text{ A} / 0.2 \text{ A})$ 20th to 100th $\pm(1.5 \% \text{ of reading} + 0.4 \text{ A} / 0.2 \text{ A})$		Up to 20th $\pm(1 \% \text{ of reading} + 0.6 \text{ A} / 0.3 \text{ A})$ 20th to 100th $\pm(1.5 \% \text{ of reading} + 0.6 \text{ A} / 0.3 \text{ A})$		Up to 20th $\pm(1 \% \text{ of reading} + 0.8 \text{ A} / 0.4 \text{ A})$ 20th to 100th $\pm(1.5 \% \text{ of reading} + 0.8 \text{ A} / 0.4 \text{ A})$		Up to 20th $\pm(1 \% \text{ of reading} + 1 \text{ A} / 0.5 \text{ A})$ 20th to 100th $\pm(1.5 \% \text{ of reading} + 1 \text{ A} / 0.5 \text{ A})$		Up to 20th $\pm(1 \% \text{ of reading} + 0.8 \text{ A} / 0.4 \text{ A})$ 20th to 100th $\pm(1.5 \% \text{ of reading} + 0.8 \text{ A} / 0.4 \text{ A})$	

*1. The voltage display is set to RMS in AC/AC+DC mode and AVG in DC mode.

*2. AC mode: For an output voltage of 20 V to 200 V / 40 V to 400 V and 23 °C ± 5 °C. DC mode: For an output voltage of 28.5 V to 285 V / 57 V to 570 V and 23 °C ± 5 °C.

*3. An output current in the range of 5 % to 100 % of the maximum current, and 23 °C ± 5 °C.

*4. An output current in the range of 5 % to 100 % of the maximum peak current in AC mode, an output current in the range of 5 % to 100 % of the maximum instantaneous current in DC mode, and 23 °C ± 5 °C. The accuracy of the peak value is for a waveform of DC or sine wave.

*5. For an output voltage of 50 V or greater, an output current in the range of 10 % to 100 % of the maximum current, DC or an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C.

*6. The apparent and reactive powers are not displayed in the DC mode.

*7. The reactive power is for the load with the power factor 0.5 or lower.

*8. An output voltage in the range of 20 V to 200 V / 40 V to 400 V and 23 °C ± 5 °C.

SPECIFICATIONS			ASR-3200	ASR-3300	ASR-3400	ASR-3500	ASR-3400HF
OTHERS							
PROTECTIONS			UVP, OCP, OTP, OPP, Fan Fail				
DISPLAY			TFT-LCD, 4.3 inch				
MEMORY FUNCTION			Store and recall settings, Basic settings: 10 (0 to 9 numeric keys)				
ARBITRARY WAVE	Number of Memories		253 (nonvolatile)				
	Waveform Length		4096 words				
INTERFACE	Standard	USB	Type A: Host, Type B: Slave, Speed: 2.0, USB-CDC				
		LAN	MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask				
		RS-232C	Complies with the EIA-RS-232 specifications				
		EXT Control	External Signal Input; External Control I/O				
		GPIB	SCPI-1993, IEEE 488.2 compliant interface				
INSULATION RESISTANCE Between input and chassis, output and chassis, input and output			1000 Vdc, 30 MΩ or more				
WITHSTAND VOLTAGE Between input and chassis, output and chassis, input and output			1500 Vac, 1 minute				
EMC			EN 61326-1, EN 61326-2-1, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11/-4-34, EN 55011 (Class A), EN 55032				
SAFETY			EN 61010-1				
ENVIRONMENT	Operating Environment		Indoor use, Overvoltage Category II				
	Operating Temperature Range		0 °C to 40 °C				
	Storage Temperature Range		-10 °C to 70 °C				
	Operating Humidity Range		20 % to 80 % RH (no condensation)				
	Storage Humidity Range		90 % RH or less (no condensation)				
	Altitude		Up to 2000 m				
TRANSPORTATION INTEGRITY			ISTA 2A Test Procedure				
DIMENSIONS & WEIGHT			430 mm(W) × 176 mm(H) × 530 mm(D) (not including protrusions); Approx. 25 kg				

Note: A value with the accuracy is the guaranteed value of the specification.

However, an accuracy noted as reference value shows the supplemental data for reference when the product is used, and is not under the guarantee.

A value without the accuracy is the nominal value or representative value (shown as typ.).

Specifications subject to change without notice. ASR-3000CD3DS

ORDERING INFORMATION

ASR-3200	2 kVA Programmable AC/DC Power Source
ASR-3300	3 kVA Programmable AC/DC Power Source
ASR-3400	4 kVA Programmable AC/DC Power Source
ASR-3400HF	4 kVA Programmable AC/DC Power Source
ASR-3500	5 kVA Programmable AC/DC Power Source

ACCESSORIES

Safety guide, Input terminal cover, Output terminal cover Include remote sensing, GRA-442-E Rack mount adapter(EIA), GTL-246 USB Cable

OPTIONAL ACCESSORIES

GPW-005	Power cord, 3 m, 105 °C, UL/CSA Type	ASR-C003	Modbus TCP feature
GPW-006	Power cord, H05VV-F 1.5 mm ² /3 C, 3 m, 105 °C, VDE Type (ASR-3200, ASR-3300 Ues Only)	GTL-232	RS232C Cable, approx. 2 m
GPW-007	Power cord, 3 m, 105 °C, PSE Type	GTL-248	GPIB Cable, approx. 2 m
GPW-017	Power cord H05VV-F 4.0 mm ² /3 C 3 m, 105 °C, VDE Type	ASR-002	External three phase control unit for IP2W, IP3W, 3P4W output
GRA-442-J	Rack mount adapter (JIS)	APS-008	Air inlet filter
GRA-442-E	Rack mount adapter (EIA)	GET-006	Universal extension
GTL-137	Output power wire (Load wire_10AWG: 50 A, 600 V/Sense wire_16 AWG: 20 A, 600 V)	* European output outlet (factory installed)	

GRA-442-J Rack Mount Adapter (JIS)



ASR-002 External three phase control unit



* Basis Requirement of ASR-002 to ASR-Series

1. Must be the three same models of ASR-Series

* Functions of ASR-Series are limited when conducts to ASR-002

1. No DC Output

2. Measurement Items: only current(A), power(W) and PF for each phase

3. No Voltage and Current Harmonic Analysis

4. No Remote Sensing Capability

5. No Arbitrary Waveform Function

6. No Sequence and Simulation Function

7 Not supported External Control I/O

8. No memory Function

9. Only support USB, no LAN port for communication

GRA-442-E Rack Mount Adapter (EIA)



GTL-137



APS-008



GET-006

(AC signal phase 250V/13Amps)



GPW-005



GPW-006

(ASR-3200, ASR-3300 Ues Only)



GPW-007



GPW-017



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