

# ASR-3000 Series

## Programmable AC/DC Power Source



**GW INSTEK**  
Simply Reliable



Model	ASR-3200	ASR-3300	ASR-3400	ASR-3500	ASR-3400HF
Output Voltage	0 Vrms to 400 Vrms/ 0 V to $\pm 570$ Vdc	0 Vrms to 400 Vrms/ 0 V to $\pm 570$ Vdc	0 Vrms to 400 Vrms/ 0 V to $\pm 570$ Vdc	0 Vrms to 400 Vrms/ 0 V to $\pm 570$ Vdc	0 Vrms to 400 Vrms/ 0 V to $\pm 570$ 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  $\pm 570$  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
<b>INPUT RATING (AC rms)</b>					
<b>NOMINAL INPUT VOLTAGE</b>	200 Vac to 240 Vac				
<b>INPUT VOLTAGE RANGE</b>	180 Vac to 264 Vac				
<b>PHASE</b>	Single phase, Two-wire				
<b>NOMINAL INPUT FREQUENCY</b>	50 Hz to 60 Hz				
<b>INPUT FREQUENCY RANGE</b>	47 Hz to 63 Hz				
<b>MAX. POWER CONSUMPTION</b>	2500 VA or less	3750 VA or less	5000 VA or less	6000 VA or less	5000 VA or less
<b>POWER FACTOR<sup>1</sup></b>	200 Vac	0.95 (TYP)			

<sup>1</sup>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)**

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

<sup>1</sup>1. 100 V / 200 V range

<sup>2</sup>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.

<sup>3</sup>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.

<sup>4</sup>4. With respect to the capacitor-input rectifying load. Limited by the maximum current.

<sup>5</sup>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.

<sup>6</sup>6. In the case of the AC mode and 23 °C ± 5 °C.

**OUTPUT RATING FOR DC MODE**

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

<sup>1</sup>1. 100 V / 200 V range

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

<sup>3</sup>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.

<sup>4</sup>4. Limited by the maximum current.

**OUTPUT VOLTAGE STABILITY**

<b>LINE REGULATION<sup>1</sup></b>	0.2 % or less
<b>LOAD REGULATION<sup>2</sup></b>	0.5 % or less (0 % to 100 %, via output terminal)
<b>RIPPLE NOISE<sup>3</sup></b>	1 Vrms / 2 Vrms (TYP)

<sup>1</sup>1. Power source input voltage is 200 V, 220 V, or 240 V, no load, rated output.

<sup>2</sup>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.

<sup>3</sup>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**

<b>TOTAL HARMONIC DISTORTION (THD)<sup>1</sup></b>	< 0.2 % @50/60 Hz	< 0.2 % @50/60 Hz	< 0.2 % @50/60 Hz
	< 0.3 % @<500 Hz	< 0.6 % @<500 Hz	< 0.5 % @<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
<b>OUTPUT VOLTAGE RESPONSE TIME<sup>2</sup></b>	100 μs (TYP)		< 2 % @2001 Hz to 5000 Hz
<b>EFFICIENCY<sup>3</sup></b>	80 % or more		

<sup>1</sup>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.

<sup>2</sup>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).

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

**MEASURED VALUE DISPLAY**

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

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

<sup>2</sup>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.

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

<sup>4</sup>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.

<sup>5</sup>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.

<sup>6</sup>6. The apparent and reactive powers are not displayed in the DC mode.

<sup>7</sup>7. The reactive power is for the load with the power factor 0.5 or lower.

<sup>8</sup>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
<b>OTHERS</b>						
<b>PROTECTIONS</b>		LVP, OCP, OTP, OPP, Fan Fail				
<b>DISPLAY</b>		TFT-LCD, 4.3 inch				
<b>MEMORY FUNCTION</b>		Store and recall settings, Basic settings: 10 (0 to 9 numeric keys)				
<b>ARBITRARY WAVE</b>	Number of Memories	253 (nonvolatile)				
	Waveform Length	4096 words				
<b>INTERFACE</b>	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				
<b>INSULATION RESISTANCE</b>		1000 Vdc, 30 MΩ or more				
<b>WITHSTAND VOLTAGE</b>		1500 Vac, 1 minute				
<b>EMC</b>		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				
<b>SAFETY</b>		EN 61010-1				
<b>ENVIRONMENT</b>	<b>Operating Environment</b>		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				
<b>TRANSPORTATION INTEGRITY</b>		ISTA 2A Test Procedure				
<b>DIMENSIONS &amp; WEIGHT</b>		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	
<b>ASR-3200</b>	2 kVA Programmable AC/DC Power Source
<b>ASR-3300</b>	3 kVA Programmable AC/DC Power Source
<b>ASR-3400</b>	4 kVA Programmable AC/DC Power Source
<b>ASR-3400HF</b>	4 kVA Programmable AC/DC Power Source
<b>ASR-3500</b>	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			
<b>GPW-005</b>	Power cord, 3 m, 105 °C, UL/CSA Type	<b>ASR-C003</b>	Modbus TCP feature
<b>GPW-006</b>	Power cord, H05VV-F 1.5 mm <sup>2</sup> /3 C, 3 m, 105 °C, VDE Type (ASR-3200, ASR-3300 Ues Only)	<b>GTL-232</b>	RS232C Cable, approx. 2 m
<b>GPW-007</b>	Power cord, 3 m, 105 °C, PSE Type	<b>GTL-248</b>	GPIB Cable, approx. 2 m
<b>GPW-017</b>	Power cord H05VV-F 4.0 mm <sup>2</sup> /3 C 3 m, 105 °C, VDE Type	<b>ASR-002</b>	External three phase control unit for IP2W, IP3W, 3P4W output
<b>GRA-442-J</b>	Rack mount adapter (JIS)	<b>APS-008</b>	Air inlet filter
<b>GRA-442-E</b>	Rack mount adapter (EIA)	<b>GET-006</b>	Universal extension
<b>GTL-137</b>	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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