

ASR-3000 Series

Programmable AC/DC Power Source

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



The ASR-3000 Series is an AC+DC power source, featuring high-speed DC voltage rising and falling time (≤100 µs). 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.

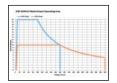
The ASR-3000 Series provides users with waveform output capabilities including 1) Sequence mode generates waveform fallings, surges, sags, changes and other abnormal power line conditions; 2) Arbitrary waveform function allows users to store/upload user-defined waveforms; and 3) Simulate mode simulates 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.

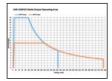
PANEL INTRODUCTION



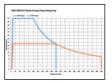
OPERATING AREA FOR ASR-3000 SERIES



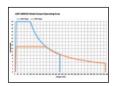
AC Output for ASR-3200



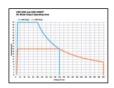
DC Output for ASR-3200



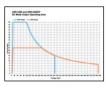
AC Output for ASR-3300



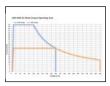
DC Output for ASR-3300



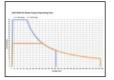
AC Output for ASR-3400/3400HF



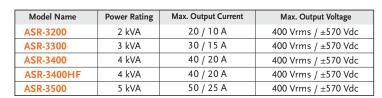
DC Output for ASR-3400/3400HF



AC Output for ASR-3500



DC Output for ASR-3500



The ASR-3000 series is an AC + DC power source that provides not only rated power output for AC output, but also rated power output for DC output.

MEASUREMENT ITEMS FOR ASR-3000 SERIES



RMS Meas Display



AVG Meas Display

Vmax	+495.7	Vpk		0.0	w	[Simple Harm
Vmin	-494.2	Vpk		2.9	VA	RMS
lmax	+0.03	Apk		+2.9	var	[PEAK]
lmin	-0.03	Apk		0.000		
lpkH	+0.19	Apk	CF	0.00		[RUN] HOLD

Peak Meas Display

ON	ON	ON	ON	94 % 200V SQU		
Harr	Harn	Harn	Harn	nonic Voltage Measure	THDv = 42.2 %	Simple
31th	21th	11th	1st	179.9 Vrms	90.7 %	[Harm]
32th	22th	12th	2nd	0.0 Vrms	0.0 %	
33th	23th	13th	3rd	59.8 Vrms	30.2 %	[THDv]
34th	24th	14th	4th	0.0 Vrms	0.0 %	THDi
35th	25th	15th	5th	35.8 Vrms	18.0 %	
36th	26th	16th	6th	0.0 Vrms	0.0 %	
37th	27th	17th	7th	25.5 Vrms	12.9 %	
38th	28th	18th	8th	0.0 Vrms	0.0 %	
39th	29th	19th	9th	19.8 Vrms	10.0 %	Page
40th	30th	20th	10th	0.0 Vrms	0.0 %	Down

Voltage Harmonic

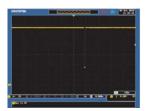


Current Harmonic

The ASR-3000 Series provides users with measurement capabilities including Vrms, Vavg, Vpeak, Irms, Iavg, Ipeak, IpkH, P, S, Q, PF, CF, 100th-order Voltage Harmonic and Current Harmonic. During the power output, the measurement

parameters including Vrms/Irms, Vavg/Iavg and Vmax/Vmin/Imax/Imin can be switched by users at any time to display the instantaneous calculation reading.

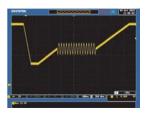
SEQUENCE MODE AND BUILT-IN ISO-16750-2 WAVEFORMS



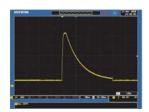
SEQ6: Momentary Drop in Supply Voltage



SEQ7: Reset Behavior at Voltage Drop with 12 V System



SEQ8: Starting Profile Waveform

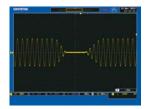


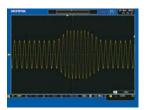
SEQ9: Load Dump with Tr_10 ms, Td_40 ms

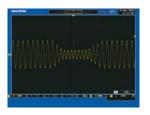
The sequence mode provides editable 10 sets of SEQ0~SEQ9, each set has 0 to 999 steps, each step time setting range is 0.0001 to 999.9999 seconds. Users can combine multiple sets of steps to generate the required waveforms, including waveform falling, surges, sags and other abnormal power line conditions to meet the needs of the test applications.

In addition, ASR-3000 Series also built in common ISO-16750-2 test waveforms in the Sequence Mode preset waveforms, including Momentary Drop in Supply Voltage built in at SEQ6, Reset Behavior at Voltage Drop with 12 V system built in at SEQ7, Starting Profile Waveform built in at SEQ8 and Load Dump with Tr_10 ms, and Td_40 ms built in at SEQ9.

D. SIMULATE MODE







Simulate Mode can quickly simulate different transient waveforms, such as power outage, voltage rise, voltage fall, etc., for engineers to evaluate the impact of transient phenomena on the DUT. Ex: Capacitance durability test.

Power Outage

Voltage Rise

Voltage Fall

FUNCTION WAVEFORM (ARBITRARY EDIT) MODE











TRI Waveform

STAIR Waveform

CLIP Waveform

SURGE Waveform

Fourier Series Synthesized Waveform

ASR-3000 Series provides more than 20,000 waveform combinations in seven categories, allowing users to quickly simulate different AC voltage waveforms. Adjust the desired waveform type directly through the panel (displayed

synchronously on the screen), then the waveform is loaded into the ARB 1 to 16 waveform register through the access procedures, and return to the main menu output mode to perform ARB Waveform output.

PC SOFTWARE









Basic Controller

Sequence Mode

ARB Waveform Edit

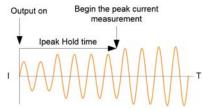
The Waveform is Observed with DSO

The ASR-3000 Series software includes basic settings, the Simulate Mode, the Sequence Mode, Data Log and the arbitrary waveform editing function. Users can directly set output voltage, frequency, start/stop phase on ASR-3000 Series through the software.

The Simulate Mode can quickly simulate different transient waveforms such as power outage, voltage rise, voltage fall... etc.

The Sequence Mode can edit the editing parameters read back from ASR-3000 Series, or directly edit the parameters and control ASR-3000 Series to output waveforms according to the set sequence. The arbitrary waveform editing function not only combines various waveforms, including sine waves, square waves, triangle waves, and noise waveforms, but also allows uses to draw arbitrary waveforms and output them.

G. T, IPK HOLD & IPK, HOLD FUNCTIONS

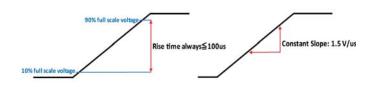


T, Ipk Measurement

T, Ipk Hold is used to set the delay time after the output (1 ms to 60,000 ms) to capture the Ipeak value and keep the maximum value. The update only functions when the measurement value is greater than the original value. The T, Ipk Hold delay time setting can be used to measure surge current at the power on process of the DUT.

Ipk Hold can be used to measure the transient surge current of the DUT at power on without using an oscilloscope and a current probe.

H. SLEW RATE MODE



Time Mode

Slope Mode

The ASR-3000 Series can set the Slew Rate Mode to determine the rise time of the voltage according to the test requirements of the DUT. Slew Rate Mode provides "Time" and "Slope" modes. When setting "Time" mode, ASR-3000 Series can increase output to 10 to 90 % of the set voltage within 100 μs ; and when selecting "Slope" mode, ASR-3000 Series increases output voltage by a fixed rising slope of 1.5 V/ μs until reaching the set voltage value.

In addition, if users decide to self-define the rise time of the output voltage, users can flexibly set the rise time of the ASR-3000 Series voltage by editing the Sequence mode.

ASR-3200 ASR-3300 ASR-3400 ASR-3500 ASR-3500 ASR-3400HF							
NOMINAL INPUT VOLTAGE 200 Vac to 240 Vac							
INPUT VOLTAGE RANGE	INPUT RATING (AC rms)						
PHASE Single phase, Two-wire	NOMINAL INPUT VOLTAGE						
NOMINAL INPUT FREQUENCY	VOLTAGE RANGE						
INPUT FREQUENCY RANGE							
MAX. POWER CONSUMPTION 2500 VA or less 3750 VA or less 5000 VA or less 6000 VA or less 5000 VA or less POWER FACTOR ⁷ 200 Vac 0.95 (TVP)	NOMINAL INPUT FREQUENCY						
POWER FACTOR ⁵ 200 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)	INPUT FREQUENCY RANGE						
*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)	MAX. POWER CONSUMPTION						
AC MODE OUTPUT RATINGS (AC rms)	FACTOR ^{®1} 200 Vac						
	S1. For an output voltage of 100 V / 200 V (100 V / 200 V range), maximum current, and a load power factor of 1.						
Setting Pange ^{±1} 0.0 V to 200.0 V / 0.0 V to 400.0 V	DE OUTPUT RATINGS (AC rms)						
	Setting Range*1						
VOLTAGE Setting Resolution 0.1 V							
Accuracy *2	Accuracy ^{°2}						
OUTPUT PHASE Single phase, Two-wire	OUTPUT PHASE						
MAXIMUM CURRENT ¹³ 100 V 20 A 30 A 40 A 50 A 40 A	IM CURRENT ⁶³						
200 V 10 A 15 A 20 A 25 A 20 A	200 V						
MAXIMUM PEAK CURRENT*4 100 V 120 A 180 A 240 A 300 A 160 A							
	200 V						
LOAD POWER FACTOR 0 to 1(leading phase or lagging phase)							
POWER CAPACITY 2000 VA 3000 VA 4000 VA 5000 VA 4000 VA	CAPACITY						
Setting Range AC Mode: 40.00 Hz to 999.9 Hz, AC Mode: 40.00 Hz to 5000 AC+DC Mode: 1 Hz to 5000 AC+DC Mode: 1 Hz to 5000	Setting Range						
0.01 Hz (1.00 Hz to 99.99 Hz), 0.01 Hz (1.00 Hz to 99.99 Hz), 0.1 Hz (10.00 Hz to 99.99 Hz) Setting Resolution 0.1 Hz (10.00 Hz to 999.9 Hz) 0.1 Hz (100.00 Hz to 999.99 Hz) 1 Hz (100.00 Hz to 999.99 Hz)	NCY Setting Resolution						
Accuracy 0.02 % of set (23 °C ± 5 °C)	Accuracy						
Stability ^{*5} ± 0.005 %							
OUTPUT ON PHASE 0° to 359° variable (setting resolution 1°)							
DC OFFSET*6 Within ± 20 mV (TYP)	SET°6						

°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.

23. For an output voltage of 17 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.

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

°S. 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	-285 V to +285 V / -570 V to +570 V						
	Setting Resolution	0.1 V							
	Accuracy*2	±(1 % of set + 1 V / 2 V)	% 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)

91. Power source input voltage is 200 V, 220 V, or 240 V, no load, rated output.
97. For a notiput voltage of 100 V to 200 V, 200 V to 400 V, a ded power factor of 1, stepwise change from an output current of 9 A to maximum current (or its reverse), using the output terminal on the rear panel.
97. For 5 H to 5 MHz components in DC mode using the output terminal on the rear panel.

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

23. For AC mode, at an ou	utput voltage of 100 V / 200	V, maximum current, and load p	ower factor of 1.						
MEASURED VALUE	DISPLAY								
		Resolution	0.1 V						
VOLTAGE	RMS, AVG Value ^{°1}	Accuracy*2	For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.5 V / 1 V)						
		Accuracy	For all other frequencies: ±(0.7 % of reading + 1 V / 2 V)						
	PEAK Value	Resolution	0.1 V						
	PEAK Value	Accuracy	For 45 Hz to 65 Hz and DC: ±(2 %	For 45 Hz to 65 Hz and DC: ±(2 % of reading + 1 V / 2 V)					
		Resolution	0.01 A						
			For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:		
	RMS, AVG Value	. 03	±(0.5 % of reading+0.1 A/0.05 A)	±(0.5 % of reading+0.15 A/0.08 A)	±(0.5 % of reading+0.2 A/0.1 A)	±(0.5 % of reading+0.25 A/0.13 A)	±(0.5 % of reading+0.2 A/0.1 A)		
		Accuracy ^{°3}	For all other frequencies:	For all other frequencies:	For all other frequencies:	For all other frequencies:	For all other frequencies:		
CURRENT			±(0.7 % of reading+0.2 A/0.1 A)	±(0.7 % of reading+0.3 A/0.15 A)	±(0.7 % of reading+0.4 A/0.2 A)	±(0.7 % of reading+0.5 A/0.25 A)	±(0.7 % of reading+0.4 A/0.2 A)		
		Resolution	0.1 A				•		
	PEAK Value	. *4	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:	For 45 Hz to 65 Hz and DC:		
		Accuracy*4	±(2 % of reading + 0.5 A/0.25 A)	±(2 % of reading + 0.8 A/0.4 A)	±(2 % of reading + 1 A/0.5 A)	±(2 % of reading + 1.3 A/0.65 A)	±(2 % of reading + 1 A/0.5 A)		
	4 .: ava	Resolution	1 W				•		
Į.	Active (W)	Accuracy ⁰⁵	±(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)		
POWER	A (MA)	Resolution	1VA						
POWER	Apparent (VA)	Accuracy °5°6	±(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)		
	Reactive (VAR)	Resolution	1 VAR						
Reactive (VAR)		Accuracy*5*7	±(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)		
LOAD POWER FACTO	O.D.	Range	0.000 to 1.000						
LOAD POWER FACTO	OK	Resolution	0.001						
LOAD CREET FACTO	ND.	Range	0.00 to 50.00						
LOAD CREST FACTOR		Resolution	0.01						
HARMONIC VOLTAC	GE	Range	Up to 100th order of the fundamental wave						
EFFECTIVE VALUE (R	RMS)	Full Scale	200 V / 400 V, 100%						
PERCENT (%)		Resolution	0.1 V, 0.1%						
(AC-INT and 50/60 H	iz only)	Accuracy ^{°8}	Up to 20th : ±(0.2 % of reading + 0.5 V / 1 V)						
		Accuracy	20th to 100th: ±(0.3 % of reading + 0.5 V / 1 V)						
HARMONIC CURREN		Range	Up to 100th order of the fundament	tal wave					
EFFECTIVE VALUE (R	RMS)	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 %		
PERCENT (%)		Resolution	0.01 A/0.1 A, 0.1%						
			Up to 20th	Up to 20th	Up to 20th	Up to 20th	Up to 20th		
		A	±(1 % of reading+0.4 A/0.2 A)	±(1 % of reading+0.6 A/0.3 A)	±(1 % of reading+0.8 A/0.4 A)	±(1 % of reading+1 A/0.5 A)	±(1 % of reading+0.8 A/0.4 A)		
		Accuracy*3	20th to 100th	20th to 100th	20th to 100th	20th to 100th	20th to 100th		
			±(1.5 % of reading+0.4 A/0.2 A)	±(1.5 % of reading+0.6 A/0.3 A)	±(1.5 % of reading+0.8 A/0.4 A)	±(1.5 % of reading+1 A/0.5 A)	±(1.5 % of reading+0.8 A/0.4 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. Commode: 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 voltage of 28.5 V to 285 V / 57 V to 570 V 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 voltage of 50 V or greater, an output current in AC mode, an output current, DC or an output frequency of 45 Hz to 65 Hz, 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 DC mode.
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.

SPECIFICATION	S								
			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)						
AKBITKAKI WATE	Waveform Length		4096 words						
		USB	Type A: Host, Type B: Slave, Speed:						
		LAN		er Password, Gateway IP Address, Instrum	ent IP Address, Subnet Mask				
INTERFACE	Standard	RS-232C	Complies with the EIA-RS-232 speci	ifications					
		EXT Control	External Signal Input; External Cont						
	1	GPIB	SCPI-1993, IEEE 488.2 compliant in	terface					
INSULATION RESISTANCE Between input and chassis, output and chassis, input and output		1000 Vdc, 30 M Ω 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							
	ENIC		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						
	Operating Environm		Indoor use, Overvoltage Category II						
	Operating Temperat	ure Range	0 °C to 40 °C						
ENVIRONMENT	Storage Temperatur		-10 °C to 70 °C						
ENVIKONIMENT	Operating Humidity		20 % to 80 % RH (no condensation)						
	Storage Humidity Ra	ange	90 % RH or less (no condensation)						
	Altitude		Up to 2000 m						
TRANSPORTATION I			ISTA 2A Test Procedure						
DIMENSIONS & WEIGHT		430 mm(W) × 176 mm(H) × 530 mm(D) (not including protrusions); Approx. 25 kg							

OPTIONAL ACCESSORIES

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-3000CD3BH

* European output outlet (factory installed)

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

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

GPW-005 Power cord, 3 m, 105 °C, UL/CSA Type ASR-C003 Modbus TCP feature GPW-006 Power cord, H05VV-F 1.5 mm²/3 C, 3 m, 105 °C, GTL-232 RS232C Cable, approx. 2 m VDE Type (ASR-3200, ASR-3300 Ues Only) Power cord, 3 m, 105 °C, PSE Type GTL-248 GPIB Cable, approx. 2 m External three phase control **GPW-007** GPW-017 Power cord H05VV-F 4.0 mm²/3 C 3 m, 105 °C, unit for IP2W, IP3W, 3P4W VDE Type Rack mount adapter (JIS) Rack mount adapter (EIA) output Air inlet filter GRA-442-I APS-008 GRA-442-E GET-006 Universal extension

GRA-442-J Rack Mount Adapter(JIS)



GRA-442-E Rack Mount Adapter(EIA)



ASR-002 External three phase control unit

GTL-137



- * 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
- No Voltage and Current Harmonic Analysis
 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

GTL-137

Output power wire

(Load wire_10AWG: 50 A, 600 V/Sense wire_16 AWG: 20 A, 600 V)







GET-006

GPW-005

GPW-006 (ASR-3200, ASR-3300 Ues Only) GPW-007

GPW-017

(AC signel phase 250V/13Amps)











Global Headquarters

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan T +886-2-2268-0389 F +886-2-2268-0639 E-mail: marketing@goodwill.com.tw

China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

GOOD WILL INSTRUMENT (SEA) SDN. BHD.

No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3, 11950 Bayan Baru, Penang, Malaysia T+604-6111122 F+604-6115225

Europe Subsidiary

GOOD WILL INSTRUMENT EURO B.V.

De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary

INSTEK AMERICA CORP.

5198 Brooks Street Montclair, CA 91763, U.S.A. T +1-909-399-3535 **F** +1-909-399-0819

Japan Subsidiary

TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222-0033 Japan T +81-45-620-2305 F+81-45-534-7181

Korea Subsidiary

GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga, Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu, Seoul 150093, Korea T +82-2-3439-2205 F +82-2-3439-2207

GW INSTEK INDIA LLP.

2F, No. 20/1, Salarpuria Galleria Building, Bellary Road, Kashi Nagar, Byatarayanapura, Bangalore, Karnataka 560092 India T +91-80-4203-3235









