ASR-3000 Series

Programmable AC/DC Power Source







Model	ASR-3200	ASR-3300	ASR-3400	ASR-3400HF
Output Voltage	0~400Vrms/ 0~ <u>+</u> 570Vdc	0~400Vrms/ 0~ <u>+</u> 570Vdc	0~400Vrms/ 0~ <u>+</u> 570Vdc	0~400Vrms/ 0~ <u>+</u> 570Vdc
Output Current	20/10A	30/15A	40/20A	40/20A
Power Rating	2000VA	3000VA	4000VA	4000VA
Output Frequency	1.00Hz~999.9Hz	1.00Hz~999.9Hz	1.00Hz~999.9Hz	1.00Hz~5000Hz

FEATURES

- * Output Rating: AC 0 \sim 400 Vrms, DC 0 \sim ± 570 V
- * Output Frequency up to 999.9Hz (5kHz 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: 2kVA/3kVA/4kVA
- * 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 (≤100us). There are four models of the series: ASR-3200(2kVA), ASR-3300(3kVA) and ASR-3400/3400HF (4kVA). 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, lavg, 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 15A, the rear panel of ASR-3000 Series is designed with a current circuit breaker. When the socket current is greater than 15A, 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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			ASR-3200	ASR-3300	ASR-3400	ASR-3400HF	
INPUT RATING (AC) NOMINAL INPUT VOLTAGE		200 Vac to 240 Vac	•		•		
INPUT VOLTAGE RA			180 Vac to 264 Vac				
PHASE NOMINAL INPUT FI	PEOLIENCY		Single phase, Two-wire 50 Hz to 60 Hz				
INPUT FREQUENCY	RANGE		47 Hz to 63 Hz				
MAX. POWER CONS	SUMPTION	lacer:	2500 VA or less	3750 VA or less	5000 VA or less	5000 VA or less	
POWER FACTOR *1 MAX. INPUT CURRE	NT	200Vac 200Vac	0.95 (TYP)	22.5 A	30 A	30 A	
*1. For an output voltage of 1	100 V / 200 V (100V / 200V range)	, maximum current, and a load po		22.37	3071	3071	
AC MODE OUTPUT	RATINGS (AC rms)	Taut a 1	0.074-200.07/10.07/1-400.07/				
VOLTAGE		Setting Range " Setting Resolution	0.0 V to 200.0 V / 0.0 V to 400.0 V				
		Accuracy *2	±(1 % of set + 1 V / 2 V)				
OUTPUT PHASE	*3		Single phase, Two-wire	I 20 A	40.4	1 40 4	
MAXIMUM CURREN	(T -	100 V 200 V	20 A 10 A	30 A 15 A	40 A 20 A	40 A 20 A	
MAXIMUM PEAK CL	JRRENT *4	100 V	120 A	180 A	240 A	160 A	
LOAD POWER FACT	*OB	200 V	60 A 0 to 1 (leading phase or lagging phase	90 A	120 A	80 A	
POWER CAPACITY	OK .		2000 VA	3000 VA	4000 VA	4000 VA	
FREQUENCY Setting Range Setting Resolution Accuracy Condition **		Setting Range	AC Mode: 40.0 Hz to 999.9 Hz, AC Mode: 40.0 Hz to 5000				
		Setting Resolution	AC+DC Mode: 1 Hz to 999.9 Hz AC+DC Mode: 1 Hz to 500 0.01 Hz (1.00 to 99.99 Hz), 0.01 Hz (1.00 to 99.99 Hz)				
		Setting Resolution	0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz)				
		1 Hz (1000 to 5000 Hz)					
		Accuracy Stability *5	0.02% of set (23 °C ± 5 °C) ± 0.005%				
OUTPUT ON PHASE	E	, stability	0° to 359° variable (setting resolutio	on 1°)			
DC OFFSET *6 *1, 100 V / 200 V range.			Within ± 20 mV (TYP)				
*3. For an output voltage of 1 If there is the DC superim *4. With respect to the capac	1 V to 100 V / 2 V to 200 V. Limite position, the current of AC+DC m citor-input rectifying load. Limited ated output voltage, no load and the and 23° C \pm 5° C.	ode satisfies the maximum curren by the maximum current.	z, no load, and 23 °C \pm 5°C. output voltage is 100 \vee to 200 \vee 200 \vee to 400 \vee . It. In the case of lower than 40 Hz, and the power rating immurrent, and the operating temperature.	; temperature, the maximum current will be decrease.			
VOLTAGE	OR DC MODE	Setting Range *1	-285 V to +285 V / -570 V to +570 V				
		Setting Resolution	0.1 V				
MANUE CONTRACTOR	··· *3	Accuracy *2 100 V	±(1 % of set + 1 V / 2 V)	30 A	40 A	40 A	
MAXIMUM CURREN	it '	200 V	20 A	30 A	40 A	40 A 20 A	
MAXIMUM PEAK CL	JRRENT *4	100 V	120 A	180 A	240 A	160 A	
POWER CAPACITY		200 V	60 A 2000 W	90 A 3000 W	120 A 4000 W	80 A 4000 W	
LINE REGULATION LOAD REGULATION RIPPLE NOISE *3	l *2		0.2% or less 0.5% or less (0 to 100%, via output 1 Vrms / 2 Vrms (TYP)	terminal)			
*1. Power source input voltage *2. For an output voltage of 1	ge is 200 V, 220 V, or 240 V, no lo: 100 V to 200 V / 200 V to 400 V, a	ıd, rated output. load power factor of 1, stepwise cl	nange from an output current of 0 A to maximum currer	nt (or its reverse), using the output terminal on the rear p	anel.		
			LTAGE RESPONSE TIME, EFFICIENCY < 0.2% @50/60Hz < 0.3% @<500Hz			< 0.2% @50/60Hz	
OUTPUT VOLTAGE	DESDONSE TIME *2			< 0.5% @500.1Hz-999.9Hz			
EFFICIENCY *3			100 μs (TYP)			< 0.5% @<500Hz < 1.0% @500.1Hz~2000Hz < 2.0% @2100Hz~5000Hz	
			100 μs (TYP) 80 % or more			< 1.0% @500.1Hz~2000Hz	
		ad power factor of 1, and in AC mo	80 % or more	ont (or its reverse).		< 1.0% @500.1Hz~2000Hz	
	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim		80 % or more ode.	ent (or its reverse).		< 1.0% @500.1Hz~2000Hz	
*3. For AC mode, at an output MEASURED VALUE VOLTAGE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY	of 1, with respect to stepwise char num current, and load power factor	80 % or more ode.	ent (or its reverse).		< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim	of 1, with respect to stepwise char	80 % or more de. age from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 %	% of reading + 0.5 V / 1 V)		< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value	of 1, with respect to stepwise char num current, and load power factor Resolution Accuracy *2	80 % or more dee. nge from an output current of 0 A to the maximum curre r of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of	% of reading + 0.5 V / 1 V)		< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY	of 1, with respect to stepwise char num current, and load power factor	80 % or more de. age from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 %	% of reading + 0.5 V / 1 V) f reading + 1 V / 2 V)		< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value	of 1, with respect to stepwise char run current, and load power factor Resolution Accuracy Resolution Accuracy Resolution	80 % or more de. ggs from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A	% of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading + 1 V / 2 V)		< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE	100 V / 200 V, a load power factor tvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value RMS, AVG Value	of 1, with respect to stepwise chan um current, and load power factor T Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy	80 % or more de. ggs from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A)	% of reading + 0.5 V / 1 V) f reading + 1 V / 2 V)	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+0.4 A/0.2 A)	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value	of 1, with respect to stepwise char run current, and load power factor Resolution Accuracy Resolution Accuracy Resolution	80 % or more de. gg form an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.07 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 10.1 A For 45 Hz to 65 Hz and DC: ±(3 % 0.7 % of reading+0.2 A/0.1 A) For 45 Hz to 65 Hz and DC:	% of reading + 0.5 V / 1 V) freading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 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:	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE	100 V / 200 V, a load power factor tvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value RMS, AVG Value	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy *2* Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution	80 % or more odd. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.1 A/0.05 A) For 45 Hz to 65 Hz and DC: ±(2.9 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2.9 % of 0.1 A) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.2 A/0.25 A) 1 W	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A)	$\pm (0.5 \% \text{ of reading+0.2 A/0.1 A})$ For all other frequencies: $\pm (0.7 \% \text{ of reading+0.4 A/0.2 A})$ For 45 Hz to 65 Hz and DC: $\pm (2 \% \text{ of reading} + 1 \text{ A/0.5 A})$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution	80 % or more de. grey form an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.5 A/0.25 A)	% of reading + 0.5 V / 1 V) freading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC:	\pm (0.5 % of reading+0.2 A/0.1 A) For all other frequencies: \pm (0.7 % of reading+0.4 A/0.2 A) For 45 Hz to 65 Hz and DC:	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT	100 V / 200 V, a load power factor tvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value	of 1, with respect to stepwise chan um current, and load power factor Resolution Accuracy Resolution	80 % or more odd. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.1 A/0.05 A) For 45 Hz to 65 Hz and DC: ±(2.9 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2.9 % of 0.1 A) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2.9 % of reading+0.2 A/0.25 A) 1 W	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A)	$\pm (0.5 \% \text{ of reading+0.2 A/0.1 A})$ For all other frequencies: $\pm (0.7 \% \text{ of reading+0.4 A/0.2 A})$ For 45 Hz to 65 Hz and DC: $\pm (2 \% \text{ of reading} + 1 \text{ A/0.5 A})$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution	80 % or more ode. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(0.7 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VAR	6 of reading + 0.5 V / 1 V) freading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A) ±(2 % of reading + 3 W) ±(2 % of reading + 3 VA)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Accuracy Resolution Accuracy	80 % or more de. ggs from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VAR ±(2 % of reading+2 VAR)	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A) ±(2 % of reading + 3 W)	$ \begin{array}{l} \pm (0.5 \ \% \ of \ reading + 0.2 \ A/0.1 \ A) \\ For all other frequencies: \\ \pm (0.7 \ \% \ of \ reading + 0.4 \ A/0.2 \ A) \\ \hline For 45 \ Hz \ to 65 \ Hz \ and \ DC: \\ \pm ([2 \ \% \ of \ reading] + 1 \ A/0.5 \ A) \\ \hline \\ \pm (2 \ \% \ of \ reading + 4 \ W) \end{array} $	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution	80 % or more ode. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(0.7 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VAR	6 of reading + 0.5 V / 1 V) freading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A) ±(2 % of reading + 3 W) ±(2 % of reading + 3 VA)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT	100 V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution Range Resolution Range	80 % or more de. grey form an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 3 Hz to 65 Hz and DC: ±(2 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.5 A/0.25 A) 1 W ±(2 % of reading+0.5 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VAR) 0.000 to 1.000 0.001 0.001 0.00 to 50.00	6 of reading + 0.5 V / 1 V) freading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A) ±(2 % of reading + 3 W) ±(2 % of reading + 3 VA)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER LOAD POWER FACTO LOAD CREST FACTO	00 V / 200 V, a load power factor voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise chanum current, and load power factors are current, and load power factors. Resolution Accuracy Resolution	80 % or more de. gge from an output current of 0 A to the maximum currer of 1. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.5 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VAR ±(2 % of reading+2 VA) 0.000 to 1.000 0.001 0.001 0.001 0.001 0.001 0.000 to 50.000	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ± (12 % of reading + 0.8 A/0.4 A) ± (2 % of reading + 3 W) ± (2 % of reading + 3 VA) ± (2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER LOAD POWER FACT	100 V / 200 V, a load power factor voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR) OR GE	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution Range Resolution Range	80 % or more de. grey form an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 3 Hz to 65 Hz and DC: ±(2 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.5 A/0.25 A) 1 W ±(2 % of reading+0.5 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VAR) 0.000 to 1.000 0.001 0.001 0.00 to 50.00	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ± (12 % of reading + 0.8 A/0.4 A) ± (2 % of reading + 3 W) ± (2 % of reading + 3 VA) ± (2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER LOAD POWER FACT LOAD CREST FACTO HARMONIC VALUE (I PERCENT (%)	100 V / 200 V, a load power factor uvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise chanum current, and load power factors are considered. Resolution Accuracy Resolution Resolution Resolution Resolution Range Resolution Range Resolution Range Resolution Range Resolution Range Resolution Range Resolution	80 % or more de. ggs from an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.7 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VAR) 0.000 to 1.000 0.001 Up to 100th order of the fundament 200 V / 400 V, 100% 0.1 V, 0.1%	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ± (12 % of reading + 0.8 A/0.4 A) ± (2 % of reading + 3 VA) ± (2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
MEASURED VALUE VOLTAGE CURRENT POWER LOAD POWER FACT LOAD CREST FACTO HARMONIC VOLTAGE EFFECTIVE VALUE (II	100 V / 200 V, a load power factor uvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR)	of 1, with respect to stepwise charum current, and load power factor Resolution Accuracy Resolution Range Resolution Range Resolution Range Full Scale	80 % or more odd. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For 45 Hz to 65 Hz and DC: ±(0.5 % For 45 Hz to 65 Hz and DC: ±(2.5 % Odd) 0.1 V For 45 Hz to 65 Hz and DC: ±(2.6 % Odd) 0.01 A For 45 Hz to 65 Hz and DC: ±(2.6 % Odd) 40.7 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of odd) 40.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2.6 % Odd) 40.7 % of reading+0.2 A/0.1 A) 1 V ±(2 % of reading+0.5 A/0.25 A) 1 V ±(2 % of reading+2 VA) 1 VAR ±(2 % of reading+2 VA) 1 VAR ±(2 % of reading+2 VA) 0.000 to 1.000 0.001 0.000 to 50.00 0.01 Up to 100th order of the fundament 200 V / 400 V, 100% 0.1 V, 0.1% Up to 20th : ±(0.2 % of reading+0.5 V)	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.8 A/0.4 A) ±(2 % of reading + 3 VA) ±(2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
POWER LOAD POWER FACT LOAD CREST FACTO HARMONIC VOLTA: EFFECTIVE VALUE (I) PERCENT (%)	IOO V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR) OR GE RMS)	of 1, with respect to stepwise charum current, and load power factor. Resolution Accuracy Resolution Resolution Resolution Resolution Resolution Resolution Resolution Accuracy Resolution Resolution Accuracy Resolution Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy	80 % or more de. ggs from an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.01 A For 45 Hz to 65 Hz and DC: ±(2 % 0.7 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(2 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VAR) 0.000 to 1.000 0.001 Up to 100th order of the fundament 200 V / 400 V, 100% 0.1 V, 0.1%	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.3 A/0.4 A) ±(2 % of reading + 3 W) ±(2 % of reading + 3 VA) ±(2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
POWER LOAD POWER FACT LOAD CREST FACTO HARMONIC VOLTA: EFFECTIVE VALUE (I) PARMONIC CURRE EFFECTIVE VALUE (I) HARMONIC CURRE EFFECTIVE VALUE (I)	100 V / 200 V, a load power factor uvoltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR) OR GERMS) tz only)	of I, with respect to stepwise chanum current, and load power factors. Resolution Accuracy Resolution Range Resolution Range Resolution Range Resolution Accuracy Resolution Range Resolution Accuracy Resolution	80 % or more odd. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For 45 Hz to 65 Hz and DC: ±(0.5 % O.1 N For 45 Hz to 65 Hz and DC: ±(12 % O.1 A) 0.01 A For 45 Hz to 65 Hz and DC: ±(12 % O.1 A) 0.01 A For 45 Hz to 65 Hz and DC: ±(12 % O.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.1 A/0.05 A) For all other frequencies: ±(0.7 % of reading+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading +2 W) 1 VAR ±(2 % of reading +2 VA) 1 VAR ±(2 % of reading +2 VA) 0.000 to 1.000 0.001 Up to 100th order of the fundament 200 V / 400 V, 100% 0.1 V, 0.1% Up to 20th : ±(0.2 % of reading + 0.2 0th to 100th order of the fundament 20 A / 10 A, 100%	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ±(0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.3 A/0.4 A) ±(2 % of reading + 3 W) ±(2 % of reading + 3 VA) ±(2 % of reading + 3 VAR)	$\begin{array}{l} \pm (0.5~\%~of~reading+0.2~A/0.1~A)\\ For all other frequencies: \\ \pm (0.7~\%~of~reading-0.4~A/0.2~A)\\ \hline For 45~Hz~to~65~Hz~and~DC: \\ \pm (2~\%~of~reading +1~A/0.5~A)\\ \hline \pm (2~\%~of~reading+4~W)\\ \hline \pm (2~\%~of~reading+4~VA)\\ \end{array}$	< 1.0% @500.1Hz~2000Hz	
POWER LOAD POWER FACT LOAD CREST FACTO HARMONIC VOLTA EFFECTIVE VALUE (I PERCENT (%) (AC-INT and 50/60 I- HARMONIC CURRE	IOO V / 200 V, a load power factor ut voltage of 100 V / 200 V, maxim DISPLAY RMS, AVG Value PEAK Value PEAK Value Active (W) Apparent (VA) Reactive (VAR) OR GE RMS)	of 1, with respect to stepwise chanum current, and load power factors are considered as a constant of the cons	80 % or more de. ggs fem an output current of 0 A to the maximum currer of 1. 10.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % For all other frequencies: ±(0.7 % of 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % 0.01 A) For 45 Hz to 65 Hz and DC: ±(12 % of reading+0.2 A/0.1 A) 10.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading+0.2 A/0.25 A) 1 W ±(2 % of reading+0.2 A/0.25 A) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VA) 1 VA ±(2 % of reading+2 VAR) 0.000 to 1.000 0.001 Up to 100th order of the fundament 200 V / 400 V, 100% 0.1 V, 0.1% Up to 20th : ±(0.2 % of reading+0.2 VD) 20th to 100th : ±(0.3 % of reading+0.2 VD) Up to 100th order of the fundament	6 of reading + 0.5 V / 1 V) f reading + 1 V / 2 V) of reading + 1 V / 2 V) For 45 Hz to 65 Hz and DC: ± (0.5 % of reading+0.15 A/0.08 A) For all other frequencies: ± (0.7 % of reading+0.3 A/0.15 A) For 45 Hz to 65 Hz and DC: ± (12 % of reading + 0.8 A/0.4 A) ± (2 % of reading + 3 VA) ± (2 % of reading + 3 VA) ± (2 % of reading + 3 VAR)	±(0.5 % of reading+0.2 A/0.1 A) For all other frequencies: ±(0.7 % of reading+0.4 A/0.2 A) For 45 Hz to 65 Hz and DC: ±([2 % of reading]+1 A/0.5 A) ±(2 % of reading+4 W) ±(2 % of reading+4 VA) ±(2 % of reading+4 VA)	< 1.0% @500.1Hz~2000Hz	

SPECIFICATIONS ASR-3200 ASR-3300 ASR-3400 ASR-3400HF *1. The voltage display is set to RMS in AC/AC+DC mode and AVG in DC mode **I. The voltage display is set to RMS in AC/AC-DC mode and AVC in DC mode.

**2. AC mode For an output voltage of 20 V to 200 V J AV to 40 V at 04 or 30 ct 30 °C. ± 5 °C.

**3. An output current in the range of 5 % to 10 % of the maximum current, and 23 °C. ± 5 °C.

**3. An output current in the range of 5 % to 10 % of the maximum current, and 23 °C. ± 5 °C.

**4. An output current in the range of 5 % to 10 % of the maximum pack current in AC mode, an output current in AC mode of the maximum instantaneous current.

**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. current in DC mode, and 23 $^{\circ}$ C \pm 5 $^{\circ}$ C. The accuracy of the peak value is for a waveform of DC or sine waveform of DC or sine waveform. OTHERS UVP, OCP, OTP, OPP, Fan Fail **PROTECTIONS TFT-LCD, 4.3 inch DISPLAY MEMORY FUNCTION Store and recall settings, Basic settings: 10 (0~9 numeric keys) Number of Memories ARBITRARY WAVE 16 (nonvolatile) Waveform Length INTERFACE Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC, USB-TMC MAC Address, DNS IP Address, User Password, Gateway IP Add USB LAN RS-232C Complies with the EIA-RS-232 specifications EXT Control External Signal Input; External Control I/O SCPI-1993, IEEE 488.2 compliant interface INSULATION RESISTANCE 500 Vdc, 30 MΩ or more Between input and chassis, output and chassis, input and output WITHSTAND VOLTAGE 1500 Vac, 1 minute etween input and chassis, output and chassis, input and output **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 ENVIRONMENT

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

Operating Environment

Storage Humidity Range

Operating Temperature Range Storage Temperature Range Operating Humidity Range

CCESSORIES

DIMENSIONS & WEIGHT

CD (User manual/Programming manual), 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, 3m, 105°C, UL/CSA Type **GPW-006** Power Cord, 3m, 105° C, VDE Type GPW-007 Power Cord, 3m, 105℃, PSE Type GRA-442-J Rack mount adapter (JIS) GTL-137

Output power wire(Load wire_ 10AWG: 50A, 600V/Sense wire_ 16AWG: 20A, 600V)

GTL-232 RS232C Cable, approx. 2m

GTL-248 GPIB Cable, approx. 2m ASR-002 External three phase control unit for IP2W, IP3W, 3P4W output

APS-008 Air inlet filter

* European Output Outlet(factory installed)

APS-008 **GPW-005** GTL-137 GRA-442-I

430(W)×176(H)×530(D) mm (not including protrusions); Approx. 25kg





Indoor use, Overvoltage Category II

20 % to 80 % RH (no condensation)

90 % RH or less (no condensation)

-10 °C to 70 °C

Up to 2000 m





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 No DC Output
 Measurement Items: only current(A), power(W) and PF for each phase
- No Voltage and Current Harmonic Analysis
 No Remote Sensing Capability
 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

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