

ASR-3000 Series

Programmable AC/DC Power Source

FEATURES

- Output Rating: AC 0 ~ 400 Vrms, DC 0 ~ ± 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



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The ASR-3000 Series is an AC+DC power source, featuring high-speed DC voltage rising and falling time (\leq 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-DC ADD Mode), 7) External AC/DC signal superimposition mode (AC+DC-ADD Mode), 8) External AC signal synchronization mode (AC-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 userdefined 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 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.

PANEL INTRODUCTION

 1. Air Inlet 2. CCD Screen 3. Display Mode Select key 4. Function Keys 5. Scroll Wheel 6. Output Key 8. Lock/Unlock Button 9. USB Interface Connector(A Type) 10. Output Socket 11. Output Socket 12. External I/O Connector 13. GPIB Connector 14. Remote Sensing Input Terminal 15. Output Terminal 16. Line Input 17. External Signal Input/External Synchronized Signal Input 18. RS-232C Connector 19. LAN Connector 20. USB Interface Connector(IB Type) 	CE RS-232 USB LAN Ext I/O GP
 3. Supervised 7. Hardcopy Key 8. Lock/Unlock Button 9. USB Interface Connector(A Type) 10. Power Switch Button 11. Output Socket 12. External I/O Connector 13. GPIB Connector 14. Remote Sensing Input Terminal 15. Output Terminal 16. Line Input 17. External Signal Input/External Synchronized Signal Input 18. RS-232C Connector 19. LAN Connector 20. USB Interface Connector(B Type) 	1. Air Inlet 2. LCD Screen 3. Display Mode Select key 4. Function Keys 5. Scroll Wheel 6. Output Key
 12. External I/O Connector 13. GPIB Connector 14. Remote Sensing Input Terminal 15. Output Terminal 16. Line Input 17. External Signal Input/External Synchronized Signal Input 18. RS-232C Connector 19. LAN Connector 20. USB Interface Connector(B Type) 	7. Hardcopy Key 8. Lock/Unlock Button 9. USB Interface Connector(A Type) 10. Power Switch Button 11. Output Socket
17. External Signal Input/External Synchronized Signal Input 18. RS-232C Connector 19. LAN Connector 20. USB Interface Connector(B Type)	12. External I/O Connector 13. CPIB Connector 14. Remote Sensing Input Terminal 15. Output Terminal 16. Line Input
	 17. External Signal Input/External Synchronized Signal Input 18. RS-232C Connector 19. LAN Connector 20. USB Interface Connector(B Type)

OPERATING AREA FOR ASR-3000 SERIES



Α.

Β.

AC Output for ASR-3200



AC Output for ASR-3400/3400HF



DC Output for ASR-3200



DC Output for ASR-3400/3400HF





AC Output for ASR-3300

DC Output for ASR-3300

Max. Output Curren Model Name wer Rating Max. Output Voltage ASR-3200 2k VA 20 / 10 A 400 Vrms / ±570 Vdc 30 / 15 A ASR-3300 3k VA 400 Vrms / ±570 Vdc 4k VA 40 / 20 A ASR-3400 400 Vrms / ±570 Vdc ASR-3400HI 40 / 20 A 4k VA 400 Vrms / ±570 Vdc

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.

 ON
 0 %b AUTOSIN
 P
 0.0
 W

 V
 350.0
 Vrms
 P
 0.0
 W

 I
 0.01
 Arms
 S
 2.8
 VA

 Q
 +2.8
 var

 IpkH
 +0.19
 Apk
 CF
 0.00

MEASUREMENT ITEMS FOR ASR-3000 SERIES



AVG Meas Display

	- and -		_		_	
Vmax	+495.7	Vpk	Р	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	PF	0.000		
lpkH	+0.19	Apk	CF	0.00		[RUN]

Peak Meas Display

ON	ON	ON	ON 94 % 200V	SQU		
Harr	Harn	Harn	Harmonic Curre	nt Measure	THDi = 42.2 %	Simple
31th	21th	11th	1st	4.31 Arms	90.7 %	fusual
32th	22th	12th	2nd	0.00 Arms	0.0%	
33th	23th	13th	3rd	1.44 Arms	30.2 %	THDV
34th	24th	14th	4th	0.00 Arms	0.0 %	THDI
35th	25th	15th	Sth	0.86 Arms	18.0 %	
36th	26th	16th	6th	0.00 Arms	0.0 %	
37th	27th	17th	7th	0.61 Arms	12.8 %	
38th	28th	18th	8th	0.00 Arms	0.0%	
39th	29th	19th	9th	0.47 Arms	9.9 %	Page
40th	30th	20th	10th	0.00 Arms	0.0 %	Down

Current Harmonic

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.

RMS Meas Display

ON	ON	ON	ON 94	% 200V SQU	\square	H
Harr	Harn	Harn	Harmo	nic 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	Sth	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%	C
39th	29th	19th	9th	19.8 Vrms	10.0 %	Page
40th	30th	20th	10th	0.0 Vrms	0.0 %	Down

Voltage 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

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



SEQ6: Momentary Drop in Supply Voltage



SEQ7: Reset Behavior at Voltage Drop with 12V System

The sequence mode provides editable 10 sets of SEQ0~SEQ9, each set has 0~999 steps, each step time setting range is 0.0001~999.9999 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.



SEQ8: Starting Profile Waveform



SEQ9: Load Dump with Tr_10ms, Td_40ms

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 12V system built in at SEQ7, Starting Profile Waveform built in at SEQ8 and Load Dump with Tr_10ms, and Td_40ms built in at SEQ9.

SIMULATE MODE D



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.

FUNCTION WAVEFORM (ARBITRARY EDIT) MODE STAL CUP APP NO **TRI Waveform** Fourier Series Synthesized Waveform **STAIR Waveform CLIP** Waveform SURGE Waveform

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),

ASR-3000 Series provides more than 20,000 waveform combinations then the waveform is loaded into the ARB 1~16 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

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.

T, IPK HOLD & IPK, HOLD FUNCTIONS



T, Ipk Measurement

T, Ipk Hold is used to set the delay time after the output (1ms \sim 60,000ms) 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.





ARB Waveform Edit

The Waveform is Observed with DSO

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.



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 10~90% of the set voltage within 100 $\mu s;$ and when selecting "Slope" mode, ASR-3000 Series increases output voltage by a fixed rising slope of 1.5V/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.

SPECIFICATIONS			ASR-3200	ASR-3300	ASR-3400	ASR-3400HF	
INPUT RATING (AC)						7.2.1.7.00111	
NOMINAL INPUT VOLT	AGE		200 Vac to 240 Vac 180 Vac to 264 Vac				
PHASE		Single phase, Two-wire					
NOMINAL INPUT FREQ			50 Hz to 60 Hz 47 Hz to 63 Hz				
MAX. POWER CONSUM	IPTION		2500 VA or less	3750 VA or less	5000 VA or less	5000 VA or less	
POWER FACTOR		200Vac 200Vac	0.95 (TYP) 15 A	22.5 A	30 A	30 A	
*1. For an output voltage of 100 V	/ 200 V (100V / 200V range),	maximum current, and a load pov	ver factor of 1.				
VOLTAGE	INGS (AC IMS)	Setting Range *1	0.0 V to 200.0 V / 0.0 V to 400.0 V				
		Setting Resolution	0.1 V				
OUTPUT PHASE		Accuracy	Single phase, Two-wire				
MAXIMUM CURRENT *	5	100 V 200 V	20 A	30 A	40 A	40 A 20 A	
MAXIMUM PEAK CURR	ENT ^{*4}	100 V	120 A	180 A	240 A	160 A	
LOAD POWER FACTOR		200 V	60 A 0 to 1 (leading phase or lagging pha	90 A ase)	120 A	80 A	
POWER CAPACITY		Setting Deven	2000 VA	3000 VA	4000 VA	4000 VA	
FREQUENCY		Setting Range	AC Mode: 40.0 Hz to 999.9 Hz, AC+DC Mode: 1 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 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz)			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	0.02% of set (23 °C ± 5 °C)			1 H2 (1000 to 3000 H2)	
OUTPUT ON PHASE		Stability *5	± 0.005% 0° to 359° variable (setting resolution	on 1°)			
DC OFFSET			Within ± 20 mV (TYP)				
 *2. For an output voltage of 20 V b *3. For an output voltage of 1 V to If there is the DC superimpositi *4. With respect to the capacitor-ir *5. For 45 Hz to 65 Hz, the rated d *6. In the case of the AC mode and OUTPUT RATING FOR E 	o 200 V / 40 V to 400 V, an ou 100 V / 2 V to 200 V. Limited ion, the current of AC+PC moi iput rectifying load. Limited by output voltage, no load and the 23°C ± 5°C.	tput frequency of 45 Hz to 65 Hz, by the power capacity when the c de satisfies the maximum current v the maximum current. a resistance load for the maximun	no load, and 23 °C ± 5°C. utput voltage is 100 V to 200 V / 200 V to 400 V. In the case of lower than 40 Hz, and the power ratin is current, and the operating temperature.	g temperature, the maximum current will be decrease.			
VOLTAGE		Setting Range *1	-285 V to +285 V / -570 V to +570 V	/			
		Setting Resolution	0.1 V ±(1 % of set + 1 V / 2 V)				
MAXIMUM CURRENT	5	100 V	20 A	30 A	40 A	40 A	
MAXIMUM PEAK CURR	ENT *4	100 V	10 A 120 A	15 A 180 A	20 A 240 A	20 A 160 A	
POWER CAPACITY		200 V	60 A	90 A 3000 \\\/	120 A	80 A	
*1. 100 V / 200 V range. *2. For an output voltage of -285 V *3. For an output voltage of 1.4 V t *4. Limited by the maximum curre	/ to -28.5 V, +28.5 V to +285 V to 100 V / 2.8 V to 200 V. Lim nt.	/ -570 V to -57 V, +57 V to +570 V ited by the power capacity when t	, no load, and 23 $^\circ\!\mathrm{C}\pm5^\circ\!\mathrm{C}.$ to output voltage is 100 V to 250 V / 200 V to 500 V.				
OUTPUT VOLTAGE STA	BILITY		0.2% or less				
LOAD REGULATION *2			0.5% or less (0 to 100%, via output	: terminal)			
*1. Power source input voltage is 2	200 V, 220 V, or 240 V, no load	, rated output.	T Vrms / 2 Vrms (TYP)				
*2. For an output voltage of 100 V *3. For 5 Hz to 1 MHz component	to 200 V / 200 V to 400 V, a lo ts in DC mode using the outpu	ad power factor of 1, stepwise ch it terminal on the rear panel.	ange from an output current of 0 A to maximum curre	ent (or its reverse), using the output terminal on the rear p	anel.		
OUTPUT VOLTAGE WAY	VEFORM DISTORTIO	N RATIO, OUTPUT VOL	TAGE RESPONSE TIME, EFFICIENCY				
TOTAL HARMONIC DIS			< 0.2% @50/60Hz < 0.3% @<500Hz < 0.5% @500.1Hz~9999.9Hz	< 0.2% @50/60Hz < 0.5% @<500Hz < 1.0% @500.1Hz~2000Hz			
OUTPUT VOLTAGE PES	PONSE TIME *2		100 µs (TYP)			< 2.0% @2100Hz~5000Hz	
EFFICIENCY "3			80 % or more				
*1. At an output voltage of 50 V to *2. For an output voltage of 100 V	200 V / 100 V to 400 V, a load / 200 V, a load power factor o	power factor of 1, and in AC mod f 1, with respect to stepwise chan	le. ge from an output current of 0 A to the maximum curr	rent (or its reverse).			
*3. For AC mode, at an output volt MEASURED VALUE DIS	tage of 100 V / 200 V, maximu PLAY	m current, and load power factor	of 1.				
VOLTAGE	RMS, AVG Value *1	Resolution	0.1 V	2/ - free diam - 0 5 // / 1 / 0			
		Accuracy -	For all other frequencies: $\pm (0.7 \% \text{ or } 10^{-1} \text{ or } $	of reading + 1 V / 2 V)			
	PEAK Value	Resolution	0.1 V For 45 Hz to 65 Hz and DC + 1/2 % of reading + 1 V / 2 V)				
CURRENT	RMS, AVG Value	Resolution	0.01 A				
		Accuracy "	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)		
			+or 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)		
	PEAK Value	Resolution	0.1 A		For 45 Hz to 65 Hz and DC.		
		Accuracy	±(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)		
POWER	Active (W)	Resolution	1 W +(2 % of reading +2 W/)	+(2 % of reading +3 \V/)	±(2 % of reading +4 W)		
	Apparent (VA)	Resolution	1 VA	(= ,	(0.0) ())		
	Reactive (VAR)	Accuracy """ Resolution	±(2 % of reading +2 VA) 1 VAR	±(2 % of reading +3 VA)	±(2 % of reading +4 VA)		
		Accuracy *5*7	±(2 % of reading +2 VAR)	±(2 % of reading +3 VAR)	\pm (2 % of reading +4 VAR)		
		Resolution	0.001				
LOAD CREST FACTOR		Range	0.00 to 50.00				
HARMONIC VOLTAGE Range			Up to 100th order of the fundamental wave				
EFFECTIVE VALUE (RMS) Full Scale PERCENT (%) Resolution			200 V / 400 V, 100% 0.1 V, 0.1%				
(AC-INT and 50/60 Hz only) Accuracy *8		Up to 20th : ±(0.2 % of reading + 0.5 V / 1 V)					
HARMONIC CURRENT Bange			20th to 100th : ±(0.3 % of reading + 0.5 V / 1 V) Up to 100th order of the fundamental wave				
EFFECTIVE VALUE (RMS	5)	Full Scale	20 A / 10 A, 100%	30 A / 15 A, 100%	40 A / 20 A, 100%		
(AC-INT and 50/60 Hz or	nly)	Accuracy *3	0.01 A, 0.1% Up to 20th Up to 20th Up to 20th				
			±(1 % of reading+0.4 A/0.2 A) 20th to 100th	±(1 % of reading+0.6 A/0.3 A) 20th to 100th	±(1 % of reading+0.8 A/0.4 A) 20th to 100th +(1.5 % of reading: 0.8 A (0.4 A)		
I		1	±(1.3 % or reading+0.4 A/0.2 A)	±(1.5 % of reading+0.6 A/0.3 A)	±(1.5 /0 01 reauting+0.8 A/0.4 A)		

SPECIFICATIONS								
			ASR-3200	ASR-3300	ASR-3400	ASR-3400HF		
*1. The voltage display is set t *2. AC mode: For an output ve *3. An output current in the ra *4. An output current in the ra *5. For an output voltage of 50 *6. The apparent and reactive *7. The reactive power is for th *8. An output voltage in the ra	o RMS in AC/AC+DC mode oltage of 20 V to 200 V / 40 V inge of 5 % to 100 % of the r inge of 5 % to 100 % of the r 0 V or greater, an output cur powers are not displayed in the load with the power factor inge of 20 V to 200 V / 40 V to 00 V to 200 V / 40 V to 00	and AVG in DC mode. t to 400 V and 23 °C ± 5 °C. DC mo maximum current, and 23 °C ± 5 °C maximum peak current in AC mode rent in the range of 10 % to 100 % the DC mode. \cdot 0.5 or lower. \circ 400 V and 23 °C ± 5 °C.	de: For an output voltage of 28.5 V to 285 V / 57 V to 570 , an output current in the range of 5 % to 100 % of the m of the maximum current, DC or an output frequency of 43	V and 23 °C ± 5 °C. aximum instantaneous current in DC mode, and 23 °C a i Hz to 65 Hz, and 23 °C ± 5 °C.	• 5 °C. The accuracy of the peak value is for a wavefu	rm of DC or sine wave.		
OTHERS								
PROTECTIONS			UVP, OCP, OTP, OPP, Fan Fail					
DISPLAY			TFT-LCD, 4.3 inch					
MEMORY FUNCTION			Store and recall settings, Basic sett	ings: 10 (0~9 numeric keys)				
ARBITRARY WAVE	Number of Mer	nories	16 (nonvolatile)					
	Waveform Leng	th	4096 words					
INTERFACE	Standard	USB	Type A: Host, Type B: Slave, Speed	: 1.1/2.0, USB-CDC, USB-TMC				
		LAN	MAC Address, DNS IP Address, Us	er Password, Gateway IP Address, Instru	ment IP Address, Subnet Mask			
		RS-232C	Complies with the EIA-RS-232 spec	ifications				
		EXT Control	External Signal Input; External Con	trol I/O				
		GPIB	SCPI-1993, IEEE 488.2 compliant in	iterface				
INSULATION RESIST	ANCE		500 Vdc, 30 MΩ or more					
Between input and chassi	s, output and chassis, ir	put and output						
WITHSTAND VOLTAG	GE		1500 Vac, 1 minute					
Between input and chassi	s, output and chassis, ir	put and output						
EMC EN 61326-1, EN 61326-2-1, F				00-3-2, EN 61000-3-3, EN 61000-3-11, EN	I 61000-3-12			
			EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4	1-8/-4-11/-4-34, EN 55011 (Class A), EN 5	55032			
SAFETY			EN 61010-1					
ENVIRONMENT	Operating Envi	ronment	Indoor use, Overvoltage Category I	1				
	Operating Tem	perature Range	0 °C to 40 °C					
	Storage Temper	rature Range	-10 °C to 70 °C					
	Operating Hurr	idity Range	20 % to 80 % RH (no condensation)					
	Storage Humid	ity Range	90 % RH or less (no condensation)					
	Altitude		Up to 2000 m					
DIMENSIONS & WEI	GHT		430(W)×176(H)×530(D) mm (not	including protrusions); Approx. 25kg				
				Sp	ecifications subject to change with	out notice. ASR-3000CD2DH		
OPDEPING		N		OPTIONAL ACCESSORIES				
ASR-3200 2kVA Programmable AC/DC Power Source ASR-3300 3kVA Programmable AC/DC Power Source ASR-3400 4kVA Programmable AC/DC Power Source ASR-3400HF 4kVA Programmable AC/DC Power Source		C Power Source C Power Source C Power Source C Power Source	GPW-005 Power Cord, 3m, 105 GPW-006 Power Cord, 3m, 10 GPW-007 Power Cord, 3m, 10 GRA-442-J Rack mount adapted	C, UL/CSA Type GTL-248 5°C, VDE Type ASR-002 5°C, PSE Type (JIS)	GPIB Cable, approx. 2m External three phase control unit for IP2W, IP3W, 3P4W output			
ACCESSORIE	S	,		GTL-137 Output power wire(Load wire_ APS-008	Air miet filter		

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 GPW-006 GPW-007 GRA-442-J GTL-137	Power Cord, $3m$, $105^{\circ}C$, UL/CSA Type Power Cord, $3m$, $105^{\circ}C$, VDE Type Power Cord, $3m$, $105^{\circ}C$, PSE Type Rack mount adapter(JIS) Output power wire(Load wire_ 10AWG: 50A, 600V/Sense wire_ 16AWG: 20A, 600V)	GTL-248 ASR-002 APS-008	GPIB Cable, approx. 2m External three phase control unit for IP2W, IP3W, 3P4W output Air inlet filter
GTL-232	RS232C Cable, approx. 2m	* European O	Dutput Outlet(factory installed)

APS-008



GRA-442-J



GTL-137





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
- * 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



Mess- und Prüftechnik. Die Experten.

Ihr Ansprechpartner / Your Partner:

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