



# ASR-2000 Series

Compact Programmable AC/DC Power Supply

## FEATURES

- Output Rating: AC 0 ~ 350 Vrms, DC 0 ~  $\pm 500$  V
- Output Frequency up to 999.9 Hz
- DC Output (100% of Rated Power)
- Output Capacity: 500VA/1000VA
- Measurement Items: Vrms, Vavg, Vpeak, Irms, IpkH, Iavg, Ipeak, P, S, Q, PF, CF
- Voltage and Current Harmonic Analysis (THDv, THDi)
- Customized Phase Angle for Output On/Off
- Remote Sensing Capability
- OVP, OCP, OPP, OTP, AC Fail Detection and Fan Fail Alarm
- Interface: USB, LAN (std.); RS-232+GPIB (opt)
- Built-in External Control I/O and External Signal Input
- Built-in Output Relay Control and Memory Function (up to 10 sets)
- Sequence and Simulation Function (up to 10 sets)
- Support Arbitrary Waveform Function and Built-in Web Server

**GW INSTEK**  
Simply Reliable

The ASR-2000 series, an AC+DC power source aiming for system integration or desktop applications, provides both rated power output for AC output and rated power output for DC output. Nine ASR-2000 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 superposition mode (AC-ADD Mode), 7) External AC/DC signal superposition 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).

The ASR-2000 series provides users with waveform output capabilities to meet the test requirements of different electronic component development, automotive electrical devices and home appliance, 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-2000 series power source outputs, it can also measure Vrms, Vavg, Vpeak, Irms, Iavg, Ipeak, IpkH, P, S, Q, PF, CF, 40th-order Voltage Harmonic and Current Harmonic. In addition, the Remote sense function ensures accurate voltage output. The Customized Phase Angle for Output On/Off function can set the starting angle and ending angle of the voltage output according to the test requirements. V-Limit, Ipeak-Limit, F-Limit, OVP, OCP, OPP function settings can protect the DUT during the measurement process. In addition to OTP, OCP, and OPP protection, the ASR-2000 series also incorporates the Fan fail alarm function and AC fail alarm function.

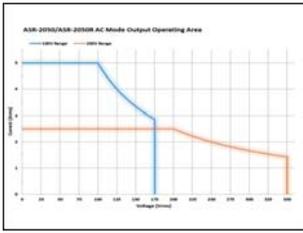
The front panel of the ASR-2050/2100 provides a universal socket or a European socket, which allows users to plug and use so as to save wiring time. The ASR-2050R/2100R is 3U height and 1/2 Rack width design, which is compatible with ATS assembly. The ASR-2000 series supports I/O interface and is equipped with USB, LAN, External I/O and optional RS-232C and GPIB.

## PANEL INTRODUCTION

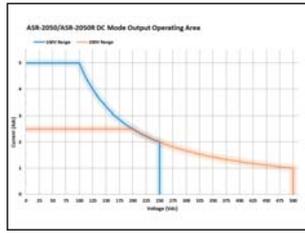


- |                            |                                    |  |
|----------------------------|------------------------------------|--|
| 1. Air Inlet               | 8. Lock/Unlock Button              | 15. Output Terminal  |
| 2. LCD Screen              | 9. USB Interface Connector(A Type)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

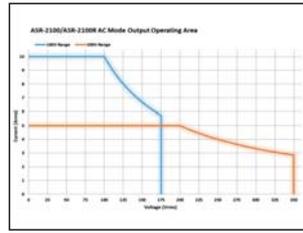
## A. OPERATING AREA FOR ASR-2000 SERIES



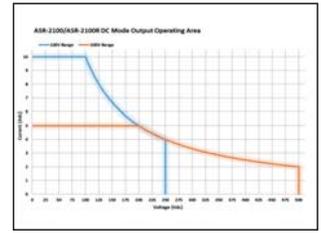
AC Output for  
ASR-2050/ASR-2050R



DC Output for  
ASR-2050/ASR-2050R



AC Output for  
ASR-2100/ASR-2100R

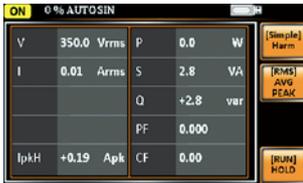


DC Output for  
ASR-2100/ASR-2100R

The ASR-2000 series is an AC+DC power source that provides rated power output not only at the AC output, but also at the DC output. The operation areas are shown in diagrams.

Model Name	Power Rating	Max. Output Current	Max. Output Voltage
ASR-2050	500 VA	5 / 2.5 A	350 Vrms / 500 Vdc
ASR-2100	1000 VA	10 / 5 A	350 Vrms / 500 Vdc
ASR-2050R	500 VA	5 / 2.5 A	350 Vrms / 500 Vdc
ASR-2100R	1000 VA	10 / 5 A	350 Vrms / 500 Vdc

## B. MEASUREMENT ITEMS FOR ASR-2000 SERIES



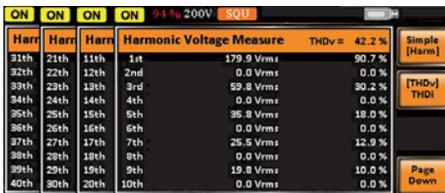
RMS Meas Display



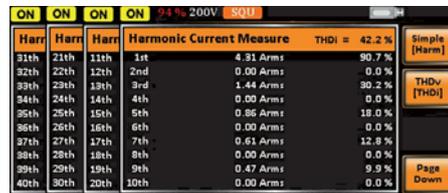
AVG Meas Display



Peak Meas Display



Voltage Harmonic

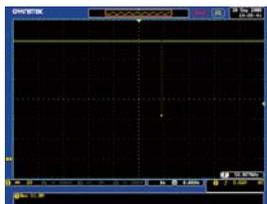


Current Harmonic

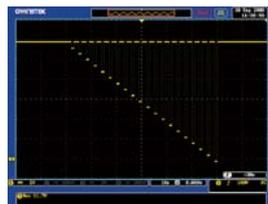
The ASR-2000 series provides users with measurement capabilities including Vrms/Irms, Vavg/Iavg and Vmax/Vmin/Imax/Imin can be switched by users at any time to display the instantaneous calculation reading. During the power output, the measurement

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.

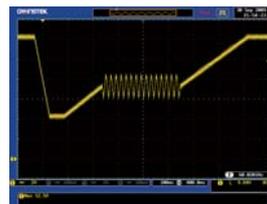
## C. SEQUENCE MODE AND APPLICATIONS



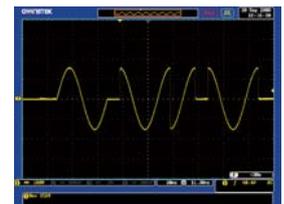
Momentary Drop in Supply Voltage



Reset Behavior at Voltage Drop



Starting Profile Waveform

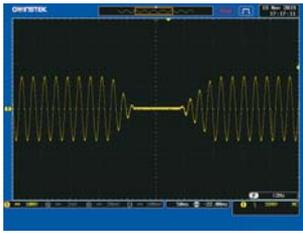


Instantaneous Power Failure

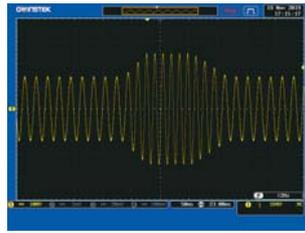
There are 10 sets of Sequence mode and each set has 0~999 steps. The time setting range of each step is 0.0001 ~ 999.9999 seconds. Users can combine multiple sets of steps to generate

the desired waveforms, including waveform fallings, surges, sags, changes and other abnormal power line conditions to meet the needs of the test application.

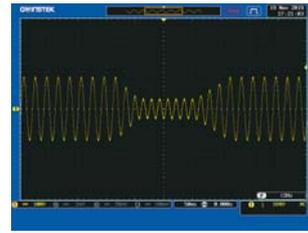
## D. SIMULATE MODE



Power Outage



Voltage Rise

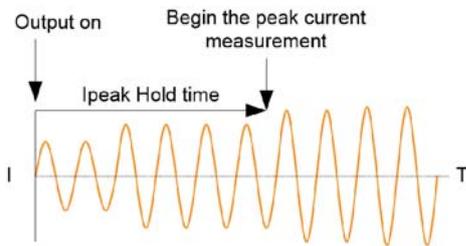


Voltage Fall

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.

## E. T, Ipk HOLD & Ipk, HOLD FUNCTIONS

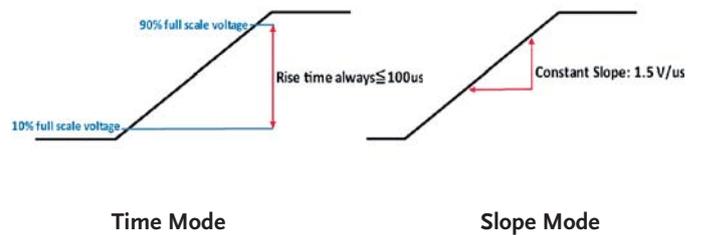


T, Ipk Measurement

T, Ipk Hold is used to set the delay time after the output (1 ms ~ 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.

## F. SLEW RATE MODE



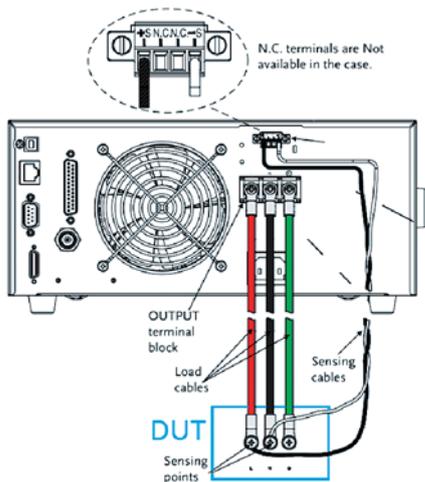
Time Mode

Slope Mode

The ASR-2000 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-2000 can increase output to 10~90% of the set voltage within 100 $\mu$ s; and when selecting "Slope" mode, ASR-2000 increases output voltage by a fixed rising slope of 1.5V/ $\mu$ s 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-2000 series voltage by editing the Sequence mode.

## G. REMOTE SENSE FUNCTION



For high current output applications, the voltage drop caused by large current passing through the load cables will affect the measurement results. The ASR-2000 series provides the remote sense function that can sense the voltage drop of the DUT to the ASR-2000 series and the DUT will be compensated by the ASR-2000 series. The maximum voltage that the remote sense function can compensate is 5% of the output voltage.

SPECIFICATIONS			ASR-2050/ASR-2050R	ASR-2100/ASR-2100R
<b>INPUT RATING (AC)</b>				
<b>NOMINAL INPUT VOLTAGE</b>		100 Vac to 240 Vac	100 Vac to 240 Vac	100 Vac to 240 Vac
<b>INPUT VOLTAGE RANGE</b>		90 Vac to 264 Vac	90 Vac to 264 Vac	90 Vac to 264 Vac
<b>PHASE</b>		Single phase, Two-wire	Single phase, Two-wire	Single phase, Two-wire
<b>INPUT FREQUENCY RANGE</b>		47 Hz to 63 Hz	47 Hz to 63 Hz	47 Hz to 63 Hz
<b>MAX. POWER CONSUMPTION</b>		800 VA or less	1500 VA or less	1500 VA or less
<b>POWER FACTOR<sup>*1</sup></b>	<b>100Vac</b>	0.95 (typ.)	0.95 (typ.)	0.95 (typ.)
	<b>200Vac</b>	0.90 (typ.)	0.90 (typ.)	0.90 (typ.)
<b>MAX. INPUT CURRENT</b>	<b>100Vac</b>	8 A	8 A	15 A
	<b>200Vac</b>	4 A	4 A	7.5 A
*1. For an output voltage of 100 V/200 V (100V/200V range), maximum current, and a load power factor of 1.				
<b>AC MODE OUTPUT RATINGS (AC rms)</b>				
<b>VOLTAGE</b>	<b>Setting Range<sup>*1</sup></b>	0.0 V to 175.0 V / 0.0 V to 350.0 V		
	<b>Setting Resolution</b>	0.1 V		
	<b>Accuracy<sup>*2</sup></b>	±(0.5 % of set + 0.6 V / 1.2 V)		
<b>OUTPUT PHASE</b>		Single phase, Two-wire		
<b>MAXIMUM CURRENT<sup>*3</sup></b>	<b>100 V</b>	5 A	10 A	10 A
	<b>200 V</b>	2.5 A	5 A	5 A
<b>MAXIMUM PEAK CURRENT<sup>*4</sup></b>	<b>100 V</b>	20 A	40 A	40 A
	<b>200 V</b>	10 A	20 A	20 A
<b>POWER CAPACITY</b>		500 VA	1000 VA	1000 VA
<b>FREQUENCY</b>	<b>Setting Range</b>	AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz		
	<b>Setting Resolution</b>	0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz)		
	<b>Accuracy</b>	For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz: 0.02% of set		
	<b>Stability<sup>*5</sup></b>	± 0.005%		
<b>OUTPUT ON PHASE</b>		0.0° to 359.9° variable (setting resolution 0.1°)		
<b>DC OFFSET<sup>*6</sup></b>		Within ± 20 mV (TYP)		
*1. 100 V / 200 V range				
*2. For an output voltage of 17.5 V to 175 V / 35 V to 350 V, sine wave, an output frequency of 45 Hz to 65 Hz, no load, DC voltage setting 0V (AC+DC mode) and 23°C ± 5°C				
*3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V.				
*4. With respect to the capacitor-input rectifying load. Limited by the maximum current.				
*5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature.				
*6. In the case of the AC mode and output voltage setting to 0 V.				
<b>OUTPUT RATING FOR DC MODE</b>				
<b>VOLTAGE</b>	<b>Setting Range<sup>*1</sup></b>	-250 V to +250 V / -500 V to +500 V		
	<b>Setting Resolution</b>	0.1 V		
	<b>Accuracy<sup>*2</sup></b>	±(0.5 % of set  + 0.6 V / 1.2 V)		
<b>MAXIMUM CURRENT<sup>*3</sup></b>	<b>100 V</b>	5 A	10 A	10 A
	<b>200 V</b>	2.5 A	5 A	5 A
<b>MAXIMUM PEAK CURRENT<sup>*4</sup></b>	<b>100 V</b>	20 A	40 A	40 A
	<b>200 V</b>	10 A	20 A	20 A
<b>POWER CAPACITY</b>		500 W	1000 W	1000 W
*1. 100 V / 200 V range				
*2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC voltage setting 0V (AC+DC mode) 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. Within 5 ms, Limited by the maximum current.				
<b>OUTPUT VOLTAGE STABILITY</b>				
<b>LINE REGULATION<sup>*1</sup></b>		±0.2% or less		
<b>LOAD REGULATION<sup>*2</sup></b>		0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 100%, via output terminal)		
<b>RIPPLE NOISE<sup>*3</sup></b>		0.7 Vrms / 1.4 Vrms (TYP)		
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.				
*2. For an output voltage of 75 V to 175V/150V to 350V, a load power factor of 1, stepwise change from an output current of 0 A to maximum current(or its reverse), using the output terminal on the rear panel.				
*3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.				
<b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b>				
<b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO<sup>*1</sup></b>		0.5 % or less		
<b>OUTPUT VOLTAGE RESPONSE TIME<sup>*2</sup></b>		100 us (TYP)		
<b>EFFICIENCY<sup>*3</sup></b>		70 % or more		
*1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC 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); 10% ~ 90% of output voltage				
*3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.				
<b>MEASURED VALUE DISPLAY</b>				
<b>VOLTAGE 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 + 0.3 V/0.6 V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 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 RMS, AVG Value</b>	<b>Resolution</b>	0.01 A	0.01 A	0.01 A
	<b>Accuracy<sup>*3</sup></b>	For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A)	For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A)	For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A)
<b>PEAK Value</b>	<b>Resolution</b>	0.1 A	0.1 A	0.1 A
	<b>Accuracy<sup>*4</sup></b>	For 45 Hz to 65 Hz and DC:±( 2 % of reading +0.2 A/0.1 A)	For 45 Hz to 65 Hz and DC:±( 2 % of reading +0.2 A/0.1 A)	For 45 Hz to 65 Hz and DC:±( 2 % of reading +0.2 A/0.1 A)
<b>POWER Active (W)</b>	<b>Resolution</b>	0.1 / 1 W	0.1 / 1 W	0.1 / 1 W
	<b>Accuracy<sup>*5</sup></b>	±(2 % of reading + 0.5 W)	±(2 % of reading + 0.5 W)	±(2 % of reading + 0.5 W)
<b>Apparent (VA)</b>	<b>Resolution</b>	0.1 / 1 VA	0.1 / 1 VA	0.1 / 1 VA
	<b>Accuracy<sup>*5*</sup></b>	±(2 % of reading + 0.5 VA)	±(2 % of reading + 0.5 VA)	±(2 % of reading + 0.5 VA)
<b>Reactive (VAR)</b>	<b>Resolution</b>	0.1 / 1 VAR	0.1 / 1 VAR	0.1 / 1 VAR
	<b>Accuracy<sup>*5*</sup></b>	±(2 % of reading + 0.5 VAR)	±(2 % of reading + 0.5 VAR)	±(2 % of reading + 0.5 VAR)
<b>LOAD POWER FACTOR</b>	<b>Range</b>	0.000 to 1.000	0.000 to 1.000	0.000 to 1.000
	<b>Resolution</b>	0.001	0.001	0.001
<b>LOAD CREST FACTOR</b>	<b>Range</b>	0.00 to 50.00	0.00 to 50.00	0.00 to 50.00
	<b>Resolution</b>	0.01	0.01	0.01

SPECIFICATIONS		ASR-2050/ASR-2050R	ASR-2100/ASR-2100R
<b>HARMONIC VOLTAGE EFFECTIVE VALUE (RMS) PERCENT (%)</b> (AC-INT and 50/60 Hz only)	<b>Range</b> <b>Full Scale</b> <b>Resolution</b> <b>Accuracy</b> <sup>*2</sup>	Up to 40th order of the fundamental wave 175 V / 350 V, 100% 0.1 V, 0.01% Up to 20th ± (0.2 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V)	Up to 40th order of the fundamental wave 175 V / 350 V, 100% 0.1 V, 0.01% Up to 20th ± (0.2 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V)
<b>HARMONIC CURRENT EFFECTIVE VALUE (RMS) PERCENT (%)</b> (AC-INT and 50/60 Hz only)	<b>Range</b> <b>Full Scale</b> <b>Resolution</b> <b>Accuracy</b> <sup>*3</sup>	Up to 40th order of the fundamental wave 5 A / 2.5 A, 100% 0.01 A, 0.01% Up to 20th ± (1 % of reading + 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading + 0.1 A / 0.05 A)	Up to 40th order of the fundamental wave 10 A / 5 A, 100% 0.01 A, 0.01% Up to 20th ± (1 % of reading + 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading + 0.2 A / 0.1 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 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. DC mode: For an output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C.  
 \*3. An output current in the range of 5 % to 100 % of the maximum current, and 23 °C ± 5 °C.  
 \*4. An output current in the range of 5 % to 100 % of the maximum peak current in AC mode, an output current in the range of 5 % to 100 % of the maximum instantaneous current in DC mode, and 23 °C ± 5 °C. The accuracy of the peak value is for a waveform of DC or sine wave  
 \*5. For an output voltage of 50 V or greater, an output current in the range of 10 % to 100 % of the maximum current, DC or an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C.  
 \*6. The apparent and reactive powers are not displayed in the DC mode.  
 \*7. The reactive power is for the load with the power factor 0.5 or lower. \*8. An output voltage in the range of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C.

OTHERS	
<b>PROTECTIONS</b>	OCP, OTP, OPP, FAN Fail
<b>DISPLAY</b>	TFT-LCD, 4.3 inch
<b>MEMORY FUNCTION</b>	10 sets for Store and Recall settings
<b>ARBITRARY WAVE</b>	16 (nonvolatile)
<b>Number of Memories</b>	4096 words
<b>Waveform Length</b>	
<b>INTERFACE</b>	<b>Standard</b>
	<b>USB</b>
	<b>LAN</b>
	<b>EXT Control</b>
	<b>Factory Optional</b>
	<b> GPIB</b>
	<b> RS-232C</b>
<b>INSULATION RESISTANCE</b>	500 Vdc, 30 MΩ or more
<b>Between input and chassis, output and chassis, input and output</b>	
<b>WITHSTAND VOLTAGE</b>	1500 Vac, 1 minute
<b>Between input and chassis, output and chassis, input and output</b>	
<b>EMC</b>	EN 61326-1 (Class A) EN 61326-2-1/-2-2 (Class A) EN 61000-3-2 (Class A, Group 1) EN 61000-3-3 (Class A, Group 1) EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) EN 55011 (Class A, Group1) EN 61010-1
<b>Safety Environment</b>	<b>Operating Environment</b> Indoor use, Overvoltage Category II <b>Operating Temperature Range</b> 0 °C to 40 °C <b>Storage Temperature Range</b> -10 °C to 70 °C <b>Operating Humidity Range</b> 20 %rh to 80 % RH (no condensation) <b>Storage Humidity Range</b> 90 % RH or less (no condensation) <b>Altitude</b> Up to 2000 m
<b>DIMENSIONS &amp; WEIGHT</b>	ASR-2000 : 285(W)×124(H)×480(D) (not including protrusions); Approx. 11.5 kg ASR-2000R : 213(W)×124(H)×480(D) (not including protrusions); Approx. 10.5 kg

Specifications subject to change without notice. ASR-2000GD1BH

ORDERING INFORMATION	
<b>ASR-2050</b>	500VA Programmable AC/DC Power Source
<b>ASR-2100</b>	1000VA Programmable AC/DC Power Source
<b>ASR-2050R</b>	500VA Programmable AC/DC Power Source for 3U 1/2 Rack Mount
<b>ASR-2100R</b>	1000VA Programmable AC/DC Power Source for 3U 1/2 Rack Mount
ACCESSORIES	
CD ROM (User Manual, Programming manual), Safety Guide, Power Cord, Mains Terminal Cover Set, Remote Sense Terminal Cover Set, GTL-123 Test Lead, GTL-246 USB Cable	

OPTIONAL ACCESSORIES	
<b>Opt01</b>	RS-232+GPIB Communication Functions(Factory installed)
<b>Opt02</b>	European Output Outlet only for ASR-2000(Factory installed)
<b>GET-003</b>	Extended Universal Power Socket(ASR-2000R only)
<b>GET-004</b>	Extended European Power Socket(ASR-2000R only)
<b>GRA-439-E</b>	Rack Mount Kit (EIA)
<b>GRA-439-J</b>	Rack Mount Kit (JIS)
<b>GTL-232</b>	RS-232C Cable, approx. 2M
<b>GTL-258</b>	GPIB Cable, approx. 2M, including 25 pins Micro-D connector
<b>ASR-001</b>	Air inlet filter
FREE DOWNLOAD	
USB Driver	

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