



ASR-6000 Series

4.5kVA/6.5kVA High-Performance AC/DC Power Supply

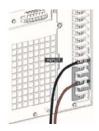
FEATURES

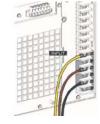
- Adopts Third-generation Semiconductor Silicon Carbide (SiC) Technology to Create a 4U 6kVA High-performance AC/DC Power Source with High Power Density
- AC Input Supports Single-phase and Three-phase, Phase Voltage 200V to 240V±10% (Delta or Y Connection)
- 10 output Modes: Including External Input Signal Frequency and Mains Synchronization(SYNC), External Voltage Controlled Internal Amplifier Output (VCA)
- Multi-channel Output Function
- Supports AC 1P2W, 1P3W, 3P4W Output
- AC Maximum Output Phase Voltage: 350Vrms Line Voltage: 700Vrms
- AC Balanced and Unbalanced Three-phase, Phase Failure Output Functions
- Programmable Output Impedance Adjustment
- Dual-channel Voltage/Current Output Monitoring Function
- Voltage Output Rise Time Can be Adjusted in Three Ranges
- Supports Sequence Editing and Emulation Output Mode
- Powerful Arbitrary Waveform Editing and Output Function, Built-in Over 40 Types of Arbitrary Waveform Outputs
- Advanced Web Server Control to Support Data Acquisition and Data Logger Both Functions
- 100th Order Harmonic Measurement Function
- Support External Parallel Connection to Increase Output Power
- Support Diverse Interface: RS-232C(Std), USB(Std), LAN(Std), CAN BUS(Opt), DeviceNet(Opt), GPIB(Opt)

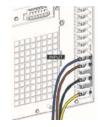
From the very moment Alpha Go defeated the human chess champion with its ultra-high-speed computing capability, artificial intelligence technology (AI) has developed rapidly around the world. Today, servers with advanced AI functions process tremendous amounts of data under the high-speed computing architecture of 2 CPUs + 8 GPUs. servers require a huge amount of power to maintain high-speed computing! In order to meet this demand, the power, density and efficiency of server power supplies have been greatly improved. High-power server power modules require high-efficiency conversion and saving of power consumption. AC single-phase input, HVDC 400V input or increased DC voltage output designs can be utilized to achieve this purpose. In order to ensure power stability when high-power servers are operating, power modules with hot-swappable redundant power supply specifications (such as CRPS) have been widely applied in server racks. Power modules with redundant functions require testing of multiple power modules at a time to ensure that all modules can maintain normal operation during high power output. Due to the rapid changes in the development of server power supplies GW Instek developed the brand new flagship model ASR-6000 series to meet customer needs. ASR-6000 series series has two models - ASR-6450 AC/DC 4.5kVA and ASR-6600 series AC/DC 6kVA.

ASR-6000 series is the first stand-alone unit from GW Instek that supports AC single/three-phase input and output, and has rated DC power output. The series employs third-generation semiconductor silicon carbide (SiC) technology to create a 4U 6kVA high power density and high-performance AC/DC power source ASR-6000 series has the ability to emulate more diverse power environment changes, such as balanced three-phase and unbalanced three-phase, phase failure, and features multi-channel output function in threephase output mode, programmable output impedance adjustment, and up to tens of thousands of arbitrary waveform outputs. The invincible launch of GW Instek flagship model ASR-6000 series demonstrates that GW Instek can provide a complete test solution for high-power AC sources. ASR-6000 series is the MVP of GW Instek power sources.

A SINGLE UNIT PROVIDES AC SINGLE/THREE-PHASE INPUT FUNCTION







ASR-6000 AC One-phase Input

ASR-6000 AC Three-phase Input (Delta Connection)

ASR-6000 AC Three-phase Input (Y Connection)

The ASR-6000 series is GW Instek's first programmable AC/DC power source that supports AC single/three-phase input.

AC three-phase input supports delta (Delta) and star (Y) wiring methods Advantages:

a .ASR-6000 can use mains in most countries around the world (ex. Mainland China, Southeast. Asia, India, Europe...) AC single-phase 220V input can help test software development engineers work with the ASR-6000 on mains in the office. No additional three-phase power source is required.

b. ASR-6000 can be used immediately in various regions around the world and is not affected by differences in power grids in different countries.

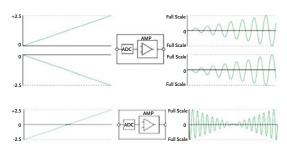
Note: 1. The AC input three-phase Y connection method must be connected to the N wire, otherwise the ASR-6000 cannot be turned on.

2. ASR-6000 AC voltage input range AC 200V ~ AC240V.

10 OUTPUT MODES



ASR-6000 Has 10 Output Modes



AC-VCA Output Mode

Output Phase	Output Mode	Signal Source				
		INT	EXT	ADO	Sync.	VCA
1P	AC+DC	AC+DC-INT	AC+DC-EXT	AC+DC-ADD	AC+DC-Sync.	N/A
	AC	AC-INT	AC-EXT	AC-ADD	AC-Sync.	AC-VCA
	DC	DC-INT	N/A	N/A	N/A	N/A
1P3W	AC+DC	AC+DC-INT	AC+DC-EXT	AC+DC-ADD	AC+DC-Sync.	N/A
	AC	AC-INT	AC-EXT	AC-ADD	AC-Sync.	AC-VCA
	DC	DC-INT	N/A	N/A	N/A	N/A
3P	AC+DC	AC+DC-INT	AC+DC-EXT	AC+DC-ADD	AC+DC-Sync.	N/A
	AC	AC-INT	AC-EXT	AC-ADD	AC-Sync.	AC-VCA
	DC	DC-INT	N/A	N/A	N/A	N/A

- AC+DC-INT AC & DC Internal output
- AC-INT AC Internal output
- DC-INT DC Internal output
- AC+DC-EXT AC & DC External output
- AC-EXT AC External output
- AC+DC-ADD AC & DC Additional output AC-ADD AC Additional output
- AC+DC-Svnc AC & DC Svnchronal output
- AC-Sync AC Synchronal output
- AC-VCA AC Voltage Control Amplifier output

A high-performance AC power source = amplifier + signal source

It has: internal output + external input signal to control internal output + amplify external input signal. and output, and other diversified output functions. ASR-6000 has up to 10 output modes, including:

- 1.Internal output (INT)
- 2.External input controls internal output (EXT)
- 3.Sum output of external and internal signal sources (ADD)
- 4. Mains frequency synchronous output (SYNC)
- 5. External DC signal controls internal AC amplitude (VCA)

AC SINGLE/THREE-PHASE OUTPUT + MULTI-CHANNEL OUTPUT FUNCTION



The ASR-6000 series has diverse output functions, including three modes: 1P2W, 1P3W and 3P4W. The maximum output for phase voltage is 350Vrms and the maximum output for line voltage is 700Vrms. In AC three-phase output (3P4W) mode, each phase supports independent output settings. Taking ASR-6600 as an example, The maximum output of each phase reaches 2kVA, supporting power supply testing of up to three DUTs to meet the needs of server power modules, Testing requirements for high-power AC power products such as electric vehicle chargers and uninterruptible power supply systems.independent output settings. Taking ASR-6600 as an example, The maximum output of each phase reaches 2kVA, supporting power supply testing of up to three DUTs to meet the needs of server power modules, Testing requirements for high-power AC power products such as electric vehicle chargers and uninterruptible power supply systems.

AC BALANCED/UNBALANCED THREE-PHASE OUTPUT MODES



AC Balanced Three-phase

The ASR-6000 series has unbalanced and balanced three-phase output modes. In the AC three-phase output mode, users can set the phase angles of L1, L2 and L3 for control.



AC Unbalanced Three-phase

Main applications: Three-phase input power supply products, when emulating unbalanced three-phase input and phase loss, the ability of three-phase power input products to restore balanced three-phase.

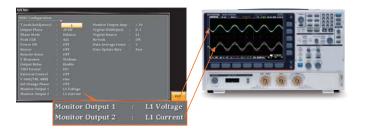
OUTPUT IMPEDANCE ADJUSTMENT FUNCTION

ASR-6000 has an output impedance adjustment function, which is mainly used to change the output inductance value and output impedance value of each phase to emulate the output voltage drop of each phase due to line loss. The adjustable range of the output impedance of ASR-6000 is as follows:

L1, L2, L3 Output Inductance $0.0 \sim 2000 \mu H$ L1, L2, L3 Output Resistance $0.0 \sim 1 \Omega$

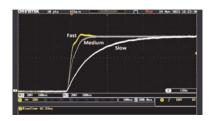
Note: This function only supports stand-alone applications. This function is automatically turned off in external parallel connection.

F. VOLTAGE AND CURRENT OUTPUT MONITORING FUNCTIONS



ASR-6000 provides dual-channel voltage and current monitoring, allowing instant output of voltage and current signals of each phase to an oscilloscope for measurement.

G. OUTPUT VOLTAGE RISE TIME IS ADJUSTABLE



In order to meet the test requirements of different DUT output voltages, it is necessary to adjust the rise time of different output voltages. The ASR-6000 offers users up to three adjustable settings: typical values are fast (50 microseconds), medium (100 microseconds) and slow (300 microseconds). ASR-6000 is initially set to medium speed.

Note: When using 1P2W output, impedance adjustment or external parallel connection, the fast range setting will be automatically turned off.

Application: It can output high-speed arbitrary waveforms to emulate various changes in the power system caused by transient high-speed rising voltage, etc.

ADVANCED WEB SERVER CONTROL FEATURES



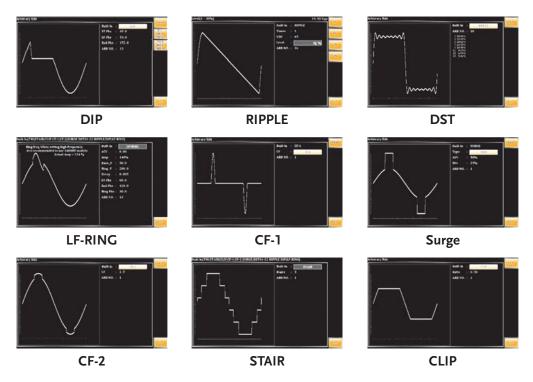
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ASR-6000 provides a full range of web control functions, including:

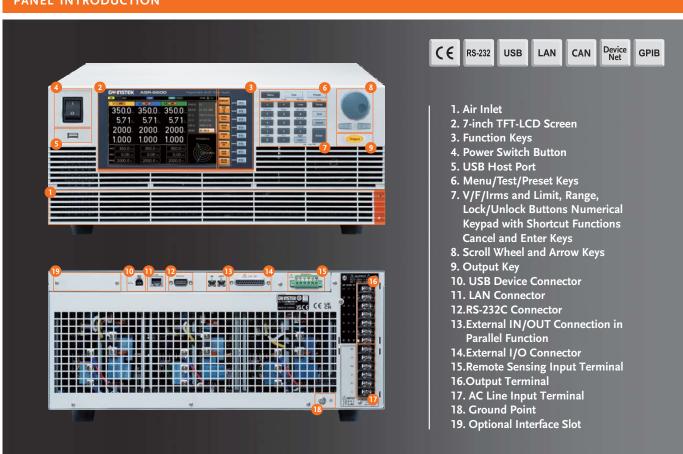
- * View system and information, and network configuration
- * Monitor measurements
- * Set/Operate ASR-6000
- * Sequence Function/Simulate Function/Edit Waveform
- * Data logger function



ASR-6000 provides more than 40 built-in waveforms, including: TRI, STAIR, CLIP, CF-1, CF-2, SURGE, DST01-22, RIPPLE, DIP, LF-RING. Each waveform also provides a change setting function, which can modulate thousands of combined waveforms and quickly emulate different AC output environments.

Users can adjust the required waveform type through the panel (the screen is displayed simultaneously), then load it into the ARB 1~16 waveform register through the access step, and return to the main menu output mode to perform ARB Waveform output. Users can also edit waveform through ASR-6000 software and then import it into ASR-6000 for execution.

PANEL INTRODUCTION



IS-0024

SPECIFICATIONS						
Model		ASR-6450		ASR-6600		
Input Ratings						
Power type		Single-phase : Three-phase. De	elta or Y connection selectable			
Voltage range ^{*1}		Single-phase ; Three-phase, Delta or Y connection selectable 200 Vac to 240 Vac ±10 % phase voltage (Delta: L-L, Y: L-N)				
Frequency range		47 Hz to 63 Hz				
Power factor*2		0.95 or higher (typ.)				
Efficiency*2		80 % or higher				
Maximum power consumption		6 kVA or lower		8 kVA or lower		
AC Output						
Multi-phase output		Single-phase output	Polyphase output	Single-phase output	Polyphase output	
Output capacity		4.5 kVA	1P3W: 3 kVA ; 3P4W: 4.5 kVA	6 kVA	1P3W: 4 kVA ; 3P4W: 6 kVA	
Mode		1P2W	1P3W; 3P4W (Y-connection)	1P2W	1P3W; 3P4W (Y-connection)	
Setting mode ^{*3}			Independ, Balanced		Independ, Balanced	
Setting mode	1		0.0 V (sine and square wave), Setting Res		ilidepella, balanced	
Phase voltage	Setting Range*4		/pp to 1000 Vpp (triangle and arbitrary w	-	Vpp / 0.1 Vpp / 1 Vpp	
riiase voitage	Accuracy ^{*5}	±(0.3 % of set + 0.5 V / 1 V)	pp to 1000 vpp (thangle and arbitrary w	ave), Setting Resolution. 0.01	үрр / о.т үрр / т үрр	
Line voltage setting range ^{°6}			1P3W: 0.00 V to 350.0 V / 0.00 V to 700.0 V 3P4W: 0.00 V to 303.1 V / 0.00 V to 606.2 V (sine and square wave) Setting Resolution: 0.01 V / 0.1 V		1P3W: 0.00 V to 350.0 V / 0.00 V to 700.0 V 3P4W: 0.00 V to 303.1 V / 0.00 V to 606.2 V (sine and square wave) Setting Resolution: 0.01 V / 0.1 V	
			1P3W: 0.00 Vpp to 1000 Vpp / 0.00 Vpp to 2000 Vpp 3P4W: 0.00 Vpp to 866.0 Vpp / 0.00 Vpp to 1732 Vpp (triangle and arbitrary wave) Setting Resolution: 0.01 Vpp / 0.1 Vpp / 1 Vpp		1P3W: 0.00 Vpp to 1000 Vpp 0.00 Vpp to 2000 Vpp 3P4W: 0.00 Vpp to 866.0 Vp 0.00 Vpp to 1732 Vpp (triangle and arbitrary wave) Setting Resolution: 0.01 Vpp 0.1 Vpp / 1 Vpp	
Maximum current ^{*7}		45 A / 22.5 A	15 A / 7.5 A	60 A / 30 A	20 A / 10 A	
Maximum peak current*8		Four times of the maximum RMS current				
Load power factor ^{*9}		0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)				
	Setting range		Hz, AC+DC Mode: 1.00 Hz to 2000.0 Hz	, Setting resolution: 0.01 Hz /	0.1 Hz	
Frequency	Accuracy	± 0.01% of set				
	Stability*10	± 0.005%				
Output on phase setting range*11		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 2000 Hz)				
Output off phase setting range *11		0.0° to 359.9° variable (Free /	Fix selectable), 0.1° (1 Hz to 500 Hz), 1°	(500 Hz to 2000 Hz)		
Setting range of the phase angle *12			1P3W: L2 phase: 0° to 359.9° 3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°		1P3W: L2 phase: 0° to 359.9° 3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	
Phase angle accuracy*13		***	45 Hz to 65 Hz: ±1.0° 15 Hz to 2000 Hz: ±2.0°		45 Hz to 65 Hz: ±1.0° 15 Hz to 2000 Hz: ±2.0°	
DC offset ^{*14}		± 20 mV (typ.)				
DC Output (Only Single Phase Outp	out)					
Output capacity		4.5 kW 6 kW			6 kW	
Mode		Floating output, the N terminal can be grounded				
Voltage	Setting Range	-250.0 V to +250.0 V / -500.0 V to +500.0 V, Setting Resolution: 0.		V / 0.1 V		
Maniness 4*16	Accuracy ^{*15}	±(0.3 % of set + 0.3 V / 0.6 V)		60 A / 30 A		
Maximum current ^{*16}		45 A / 22.5 A	urrant	00 M / 30 M		
Maximum peak current**/		Four times of the maximum co				
Output Stability, Total Harmonic Di	stortion, Output Vo		Noise			
Line regulation		±0.1% or less (Phase voltage)				
Load regulation*18		$\pm 0.1 \text{ V} / \pm 0.2 \text{ V}$, @DC (only single-phase output) $\pm 0.1 \text{ V} / \pm 0.2 \text{ V}$, @45 Hz to 65 Hz (phase voltage, 0 to 100%, via output terminal) $\pm 0.5 \text{ V} / \pm 1.0 \text{ V}$, @all other frequencies (phase voltage, 0 to 100%, via output terminal)				
Load regulation*18			quencies (phase voltage, 0 to 100%, via o	output terminal)		
Distortion of Output ^{*19}		±0.5 V / ±1.0 V, @all other free <0.3 % @1Hz to 100Hz, <0.5	% @100.1 Hz to 500 Hz, <1 % @500.1			
		±0.5 V / ±1.0 V, @all other fre	% @100.1 Hz to 500 Hz, <1 % @500.1		_	

- *1 Y connection is three-phase, five-wire, Delta connection is three-phase, four-wire. (Accessories will be provided)
 *2. In the case of AC-INT mode, the rate output voltage, resistance load at maximum output current, 45 Hz to 65 Hz and sine wave output only.
 *3. Can be only set in polyphase mode.
 *4. For phase voltage setting in polyphase output. In balance mode all phase are collectively set and in unbalance mode each phase are individually set.
 *5. For an output voltage of 10 V to 175 V / 20 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. For phase voltage setting in the polyphase output.
 *6. Line voltage only can be set in balance mode.
 *7. If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the DC superimmpositions, the active current of AC+DC satisfies the maximum current. In the case of 40 Hz or lower or 400 Hz or higher, and that the ambient temperature is 40 degree or higher, the maximum current may decrease.
 *8. With respect to the capacitor-input rectifying load. Limited by the maximum current.
 *9. External power injection or regeneration which is over short reverse power flow capacity is not available.
 *16. If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the AC superimmpositions, the active current of AC+DC satisfies the maximum current. And the ambient temperature is 40 degree or higher, the maximum current may decrease.
 *17. Instantaneous within 3 ms., limited by the maximum current at rated output voltage.
 *18. For an output voltage of 75 V to 175 V / 150 V to 350 V, a load power factor of 1, stepwise change from an output current of 0 A to maximum current (or its reverse), using the output terminal on the rear panel.
 *19. 50 % or higher of the rated output voltage, the maximum current to ower, AC and AC+DC modes, THD+N. For the polyphase it is a specification for phase voltage setting.
 *20. For an output vo

		Single-phase output	Polyphase output ^{*6}
	Resolution	0.01 V / 0.1 V	
oltage ^{*1*2}	RMS value accuracy	45 Hz to 65 Hz and DC: ± (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 2000 Hz: ± (0.7 % of rdg + 1 V / 2 V)	45 Hz to 65 Hz: ± (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 2000 Hz: ± (0.7 % of rdg + 1 V / 2 V)
•	AVG value accuracy	DC: ± (0.5 % of rdg + 0.5 V / 1 V)	DC: ± (0.5 % of rdg + 0.5 V / 1 V)
	PEAK value accuracy*3	45 Hz to 65 Hz and DC: ±(2 % of rdg + 1 V / 2 V)	45 Hz to 65 Hz: ±(2 % of rdg + 1 V / 2 V)
Current ^{*4}	Resolution	0.01 A / 0.1 A	
	RMS value accuracy	45 Hz to 65 Hz and DC: ±(0.5 % of rdg + 0.1 A / 0.05 A) 15 Hz to 2000 Hz: ±(0.7 % of rdg + 0.2 A / 0.1 A)	45 Hz to 65 Hz: ±(0.5 % of rdg + 0.05 A / 0.03 A) 15 Hz to 2000 Hz: ±(0.7 % of rdg + 0.1 A / 0.05 A)
	AVG value accuracy	DC: ± (0.5 % of rdg + 0.2 A / 0.1 A)	DC: ± (0.5 % of rdg + 0.1 A / 0.05 A)
	PEAK value accuracy ⁵	45 Hz to 65 Hz and DC: ±(2 % of rdg + 1 A / 0.5 A)	45 Hz to 65 Hz: ±(2 % of rdg + 0.5 A / 0.25 A)

Model			ASR-6450	ASR-6600	
	1	Resolution	0.1 W /1 W	1	
ower ^{*7*8}	Active (W)	Accuracy*9	±(1 % of rdg + 3 W)	±(1 % of rdg + 1 W)	
	A 0(A)	Resolution	0.1 VA / 1 VA		
	Apparent (VA)	Accuracy	±(2 % of rdg + 6 VA)	±(2 % of rdg + 2 VA)	
	Reactive (VAR)	Resolution	0.1 VAR / 1 VAR		
	Reactive (VAR)	Accuracy*10	±(2 % of rdg + 6 VAR)	±(2 % of rdg + 2 VAR)	
ower factor	•	Range	0.000 to 1.000		
wer factor F		Resolution	0.001		
ralue (rms) Percent (%)		Range	Up to 100th order of the fundamental wave		
		Full Scale	200 V / 400 V, 100%		
		Resolution	0.01 V /0.1 V, 0.1%		
		Accuracy*12	Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V); 20th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)		
Harmonic current Effective value (rms) Percent (%)		Range	Up to 100th order of the fundamental wave		
		Full Scale	63 A / 31.5 A, 100%	21 A / 10.5 A, 100%	
		Resolution	0.01 A / 0.1 A, 0.1%		
		Accuracy*13	Up to 20th: ±(1 % of rdg + 1.5 A / 0.75 A) 20th to 100th: ±(1.5 % of rdg + 1.5 A / 0.75 A)	Up to 20th: ±(1 % of rdg + 0.5 A / 0.25 A) 20th to 100th: ±(1.5 % of rdg + 0.5 A / 0.25 A)	

- *1. In the polyphase output, the specification is for phase voltage, and the DC average value display cannot be selected.
 *2. Accuracy values are in the case that the output voltage is within voltage setting range.
 *3. The accuracy is for output waveform DC or sine wave only.
 *4. Accuracy values are in the case that the output current is 5% to 100% of the maximum current.
 *5. The accuracy is for output waveform DC or sine wave only.
 *6. In the polyphase output, these are the specifications for each phase.
 *7. 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 feeturency of 45 Hz to 65 Hz.

- *8. The apparent and reactive powers are not displayed in the DC mode.

 *9. For the load with the power factor 0.5 or higher.

 *10. For the load with the power factor 0.5 or lower.

 *11. The measurement does not conform to the IEC or other standard. Phase Voltage and Phase Current.
- *12. For an output voltage of 10 V to 175 V / 20 V to 350 V.
 *13. An output current in the range of 5 % to 100 % of the maximum current.

DC or an output freque	ency of 45 Hz to 65	Hz.			
Others					
Protections			UVP, OVP, OCP, OTP, OPP, Fan Fail, Peak and RMS Current Limit		
Parallel function			Up to 3 units		
Display	Display		TFT-LCD, 7 inch		
Memory function			Store and recall settings, Basic settings: 10		
	Number of memories		16 (nonvolatile)		
Arbitrary Wave	Waveform length		4096 words		
	Amplitude resolution		16 bits		
General Specification	s				
		USB	Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC / USB-TMC		
	Standard	LAN	MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask		
		External	External Signal Input; External Control I/O; V/I Monitor Output		
Interface		RS-232C	Complies with the EIA-RS-232 specifications		
Ì	Optional 1	GPIB	SCPI-1993, IEEE 488.2 compliant interface		
	Optional 2	CAN Bus	Complies with CAN 2.0A or 2.0B based protocol		
	Optional 3	DeviceNet	Complies with CAN 2.0A or 2.0B based protocol		
Insulation resistance			DC 500 V, 30 MΩ or more		
Withstand voltage	Between input and chassis, output and chassis, input and output		AC 1500 V or DC 2130 V , 1 minute		
EMC			EN 61326-1 (Class A) EN 61326-2-1/-2-2 (Class A) EN 61000-3-2/-3-12 (Class A, Group 1) EN 61000-3-3/-3-11 (Class A, Group 1) EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11/-4-34 (Class A, Group 1) EN 55011 (Class A, Group 1)		
Safety			EN 61010-1		
Vibration, Shock and Transportation Integrity		egrity	ISTA 2A Test Procedure		
Environment	Operating environment		Indoor use, Overvoltage Category II		
	Operating temperature range		0 °C to 40 °C		
	Storage temperature range		-10 °C to 70 °C		
	Operating humidity range		20 %rh to 80 % RH (no condensation)		
	Storage humidity range		90 % RH or less (no condensation)		
	Altitude		Up to 2000 m		
Dimensions (mm)			430(W)×176(H)×590(D) (not including protrusions)		
Weight			Approx. 40 kg		
	to the constant of	L Cil	1 1 V		

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.). Product specifications are subject to change without notice.

ORDERING INFORMATION

ASR-6450 4.5kVA High-Performance AC/DC Power Supply ASR-6600 6kVA High-Performance AC/DC Power Supply

Quick start guide, Safety guide, Input terminal cover,

Output terminal cover, Copper plate for delta connection input,

Copper plate for single phase and Y connection input,

Copper plate for delta connection input,

Copper plate for 1P output,

GRA-451-E Rack mount adapter (EIA)

GTL-246 USB cable (USB 2.0 Type A - Type B cable, approx. 1.2M)

Specifications subject to change without notice. ASR-6000ID1BH

ASR-003 GPIB interface card GTL-232 RS-232C Cable, approx. 2M GTL-248 GPIB Cable, approx. 2M GRA-451-E Rack mount adapter (EIA) ASR-004 DeviceNet interface card ASR-005 CAN BUS interface card ASR-006 External parallel cable GRA-451-J Rack mount adapter (JIS) GPW-008 6RV3 Power Cord; 10AWG/3C, 3m Max Length, , RV5-5*3P, RV5-5*3P UL TYPE GPW-009 6RVV3 Power Cord; 1.5mm2/3C, 3m Max Length, RVS3-5*3P, RVS3-5*3P VDE TYPE GPW-010 6RVT3 Power Cord; 2.5mm2/3C, 3m Max Length, RVS2-5*3P, RVS2-5*3P PSE TYPE GPW-011 6RV5 UL Power Cord; 10AWG/5C, 3m, RV5-5*5P, RV5-5*5P UL Type GPW-012 6RVV5 VDE Power Cord; 2.5mm2/5C, 3m Max Length, RVS3-5*5P, RVS3-5*5P VDE Type **GPW-013** 6RVT5 PSE Power Cord; 2.0mm2/5C, 3m Max Length, RVS2-5*5P, RVS2-5*5P PSE Type **GPW-014** 6RV4 UL Power Cord; 10AWG/4C, 3m, RV5-5*4P, RV5-5*4P UL TYPE GPW-015 6RVV4 VDE Power Cord; 2.5mm2/4C, 3m Max Length, RVS3-5*4P, RVS3-5*4P VDE Type GPW-016 6RVT4 PSE Power Cord; 2.0mm2/4C, 3m Max Length, RVS2-5*4P, RVS2-5*4P PSE Type

