



# ASR-6000 Series (6500/6660)

5/6.6/10/13.2/15/19.8/26.4/33/39.6 kVA High-Performance AC/DC Power Supply

## FEATURES

- AC Input is Three-phase Only, Line Voltage 380 V to 415 V  $\pm 10\%$
- Adopts Compound Semiconductor Silicon Carbide (SiC) Technology to Create a 4U 6.6 kVA High-performance AC/DC Power Source with High Power Density
- 10 Output Modes: Including External Input Signal Frequency and Mains Synchronization (SYNC), External Voltage Controlled Internal Amplifier Output (VCA)
- Multi-channel Output Function
- Supports 1P2W, 1P3W, 3P4W output
- AC Maximum Output Phase Voltage: 350 Vrms Line Voltage: 700 Vrms
- Frequency Range: AC Mode: 15.00 Hz to 2000.0 Hz, AC+DC Mode: 1.00 Hz to 2000.0 Hz (Stand-alone unit ASR-6500/6660); Parallel Rack Type: Highest Frequency De-rating to 1000.0 Hz (10 kVA to 19.8 kVA); De-rating to 550.0 Hz (26.4 kVA to 39.6 kVA)
- AC Balanced and Unbalanced Three-phase, Phase Loss 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, Capable of Editing and Outputting Tens of Thousands of Waveforms
- Advanced Web Server Control to Support Data Acquisition Function
- 100 th Order Harmonic Measurement Function
- Support Parallel Connection Type Up to 39.6 kVA / 39.6 kW Maximum
- Standard Interfaces: RS-232C, USB, LAN
- Optional Interfaces: CAN Bus, DeviceNet, GPIB

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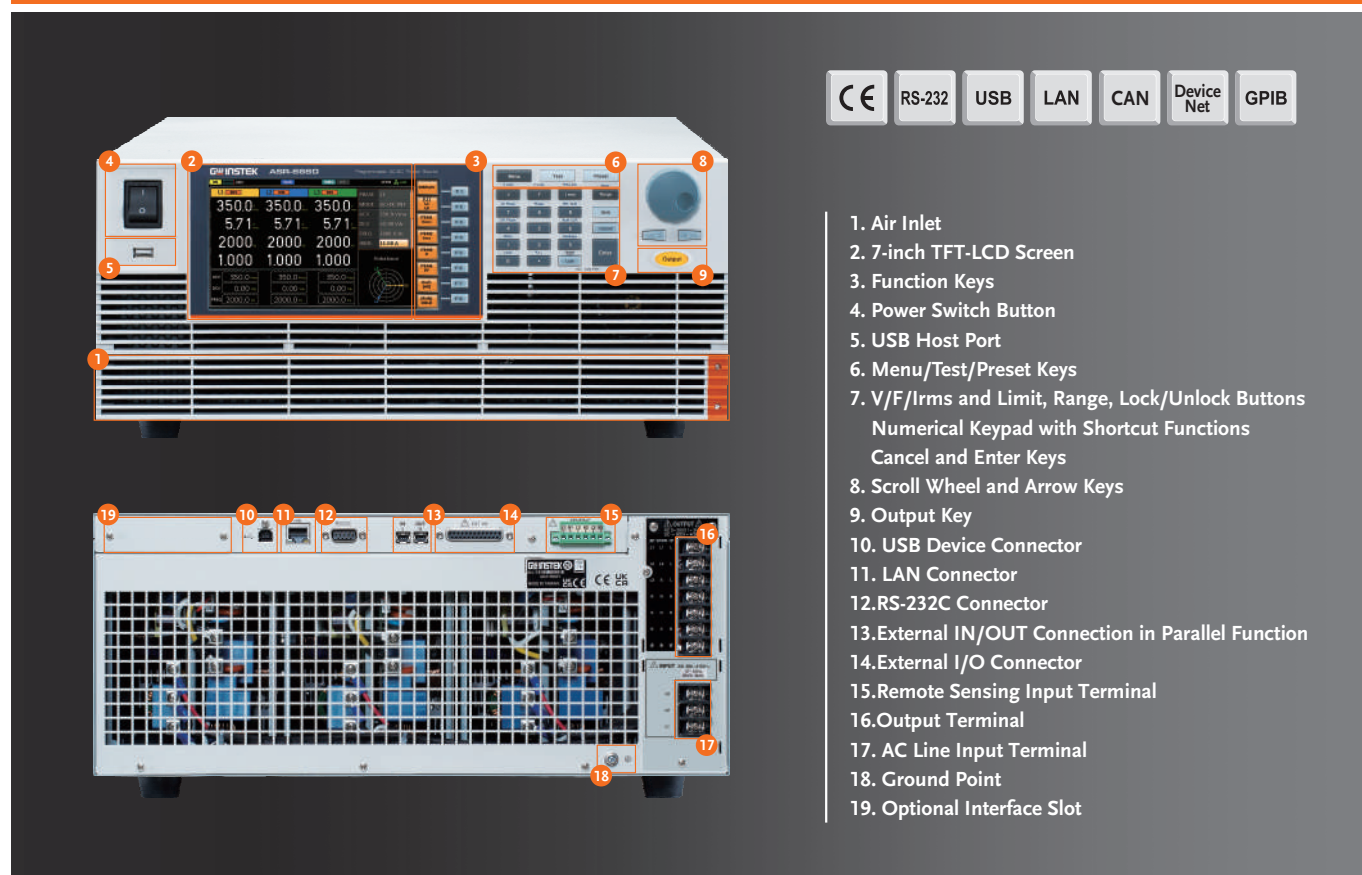
**GW INSTEK**  
Simply Reliable

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 highspeed 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 highefficiency conversion and saving of power consumption. AC single-phase input, HVDC 400 V 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.

The series employs compound semiconductor silicon carbide (SiC) technology to create a 4U 6.6 kVA 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 three-phase 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.and unbalanced three-phase, phase failure, and features multi-channel output function in three-phase output mode, programmable output impedance adjustment, and up to 253 types 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.

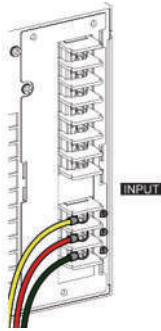
## PANEL INTRODUCTION



Type	Stand Alone		Rack Type *						
Model	ASR-6500	ASR-6660	ASR-6500-10	ASR-6500-15	ASR-6660-13.2	ASR-6660-19.8	ASR-6660-26.4	ASR-6660-33	ASR-6660-39.6
AC Input Voltage	3P3W (VLL Y): AC 380 V to 415 V $\pm$ 10 % 3P4W (VLL Y): AC 380 V to 415 V $\pm$ 10 %								
AC Output Voltage	Phase Voltage 0 V to 350.0 V/Line Voltage 0 V to 700 V								
AC Output Current	1P2W: 50 A / 25 A 1P3W, 3P4W: 16.6 A / 8.33 A	1P2W: 66 A / 33 A 1P3W, 3P4W: 22 A / 11 A	1P2W: 100 A / 50 A 1P3W, 3P4W: 33.54 A / 16.66 A	1P2W: 150 A / 75 A 1P3W, 3P4W: 50.01 A / 24.99 A	1P2W: 132 A / 66 A 1P3W, 3P4W: 44 A / 22 A	1P2W: 198 A / 99 A 1P3W, 3P4W: 66 A / 33 A	1P2W: 264 A / 132 A 1P3W, 3P4W: 88 A / 44 A	1P2W: 330 A / 165 A 1P3W, 3P4W: 110 A / 55 A	1P2W: 396 A / 198 A 1P3W, 3P4W: 132 A / 66 A
Output Frequency	2000 Hz	2000 Hz	1000 Hz	1000 Hz	1000 Hz	1000 Hz	550 Hz	550 Hz	550 Hz
AC Output Capacity	5 kVA	6.6 kVA	10 kVA	15 kVA	13.2 kVA	19.8 kVA	26.4 kVA	33 kVA	39.6 kVA
DC Output Voltage	-250.0 V to +250.0 V/-500.0 V to +500.0 V								
DC Output Capacity	5 kW	6.6 kW	10 kW	15 kW	13.2 kW	19.8 kW	26.4 kW	33 kW	39.6 kW

\* Note: Rack type models are available starting from the end of december 2025

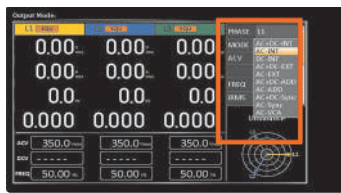
## A. THREE-PHASE INPUT FUNCTION



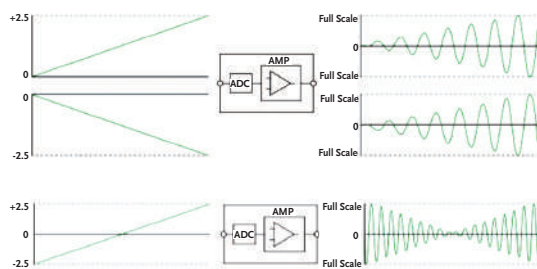
AC One-phase Input

ASR-6500 & ASR-6660 provide 3P3W Y connection

## B. 10 OUTPUT MODES



ASR-6000 Has 10 Output Modes



AC-VCA Output Mode

Output Phase	Output Mode	Signal Source				
		INT	EXT	ADD	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-Sync AC & DC Synchronal 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)

## C. 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 350 Vrms and the maximum output for line voltage is 700 Vrms. 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 2 kVA, 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 2 kVA, 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.

## D. AC BALANCED/UNBALANCED THREE-PHASE OUTPUT MODES



AC Balanced Three-phase



AC Unbalanced 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.

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.

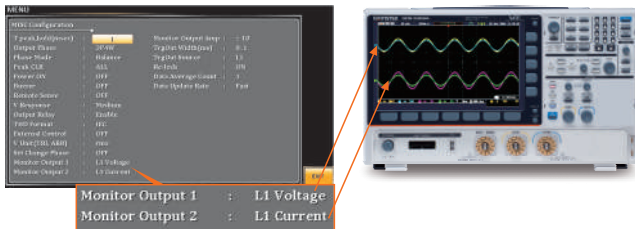
## E. OUTPUT IMPEDANCE ADJUSTMENT FUNCTION

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

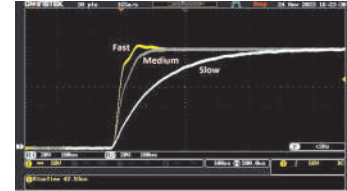
Note: This function only supports stand-alone applications. This function is automatically turned off in external parallel connection.

## F. VOLTAGE AND CURRENT OUTPUT MONITORING FUNCTIONS



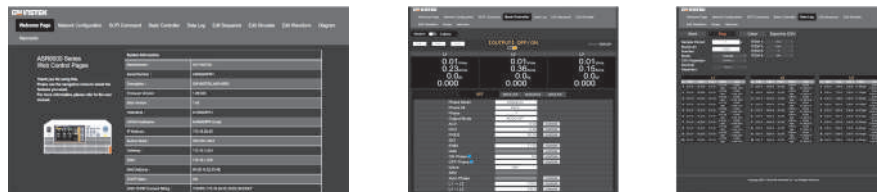
ASR-6000 provides dual-channel voltage and current monitoring, allowing instant output of voltage and current signals of each phase to an oscilloscope for measurement.

## 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.

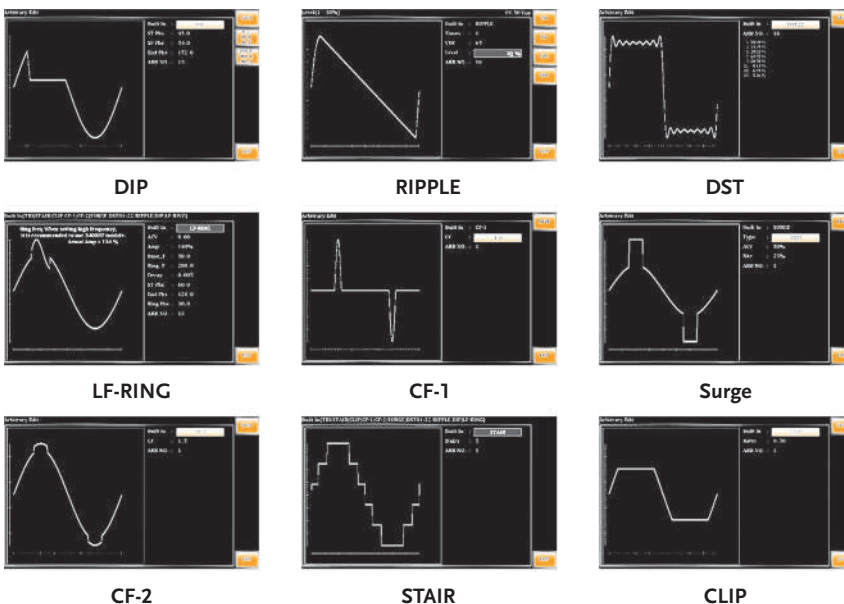
## H. ADVANCED WEB SERVER CONTROL FEATURES



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

## I. DIVERSE WAVEFORM OUTPUT 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 to 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.

# SPECIFICATIONS

Input Ratings		ASR-6500		ASR-6660	
Power type		Three-phase, three-wire			
Voltage range <sup>*1</sup>		380 Vac to 415 Vac ±10 % line voltage			
Frequency range		47 Hz to 63 Hz			
Power factor <sup>*2</sup>		0.95 or higher (typ.)			
Efficiency <sup>*2</sup>		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		5 kVA	1P3W: 3.3 kVA 3P4W: 5 kVA	6.6 kVA	1P3W: 4.4 kVA 3P4W: 6.6 kVA
Mode		1P2W	1P3W 3P4W (Y-connection)	1P2W	1P3W 3P4W (Y-connection)
Setting mode <sup>*3</sup>		---	Unbalance, Balanced	---	Unbalance, Balanced
Phase voltage	Setting Range <sup>*4</sup>	0.00 V to 175.0 V / 0.0 V to 350.0 V (sine and square wave), Setting Resolution: 0.01 V / 0.1 V			
	Accuracy <sup>*5</sup>	0.00 Vpp to 500.0 Vpp / 0.00 Vpp to 1000 Vpp (triangle and arbitrary wave), Setting Resolution: 0.01 Vpp / 0.1 Vpp / 1 Vpp ±(0.3 % of set + 0.5 V / 1 V)			
Line voltage setting range <sup>*6</sup>		---	1P3W: 0.00 V to 330.0 V / 0.00 V to 700.0 V 3P4W: 0.00 V to 303.1 V / 0.00 V to 606.2 V (sine wave only)	---	1P3W: 0.00 V to 330.0 V / 0.00 V to 700.0 V 3P4W: 0.00 V to 303.1 V / 0.00 V to 606.2 V (sine wave only)
Maximum current <sup>*7</sup>		50 A / 25 A	16.67 A / 8.33 A	66 A / 33 A	22 A / 11 A
Maximum peak current <sup>*8</sup>		Four times of the maximum RMS current			
Load power factor <sup>*9</sup>		0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)			
Frequency	Setting range	AC Mode: 15.00 Hz to 2000.0 Hz, AC+DC Mode: 1.00 Hz to 2000.0 Hz, Setting resolution: 0.01 Hz / 0.1 Hz			
	Accuracy	± 0.01% of set			
	Stability <sup>*10</sup>	± 0.005%			
Output on phase setting range <sup>*11</sup>		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 <sup>*11</sup>		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 <sup>*12</sup>		---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°
Phase angle accuracy <sup>*13</sup>			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 <sup>*14</sup>		± 20 mV (typ.)			
DC output (only single phase output)					
Output capacity		5 kW		6.6 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: 0.01 V / 0.1 V			
	Accuracy <sup>*15</sup>	±([0.3 % of set] + 0.3 V / 0.6 V)			
Maximum current <sup>*16</sup>		50 A / 25 A		66 A / 33 A	
Maximum peak current <sup>*17</sup>		Four times of the maximum current			
Output Stability, Total Harmonic Distortion, Output voltage rising time and Ripple noise					
Line regulation		±0.1% or less (Phase voltage)			
Load regulation <sup>*18</sup>		±0.1 V / ±0.2 V, @DC (only single-phase output) ±0.1 V / ±0.2 V, @45 Hz to 65 Hz (phase voltage, 0 to 100%, via output terminal) ±0.5 V / ±1.0 V, @all other frequencies (phase voltage, 0 to 100%, via output terminal)			
Distortion of Output <sup>*19</sup>		<0.3 % @1Hz to 100Hz, <0.5 % @100.1 Hz to 500 Hz, <1 % @500.1 Hz to 2000 Hz			
Output voltage response time <sup>*20</sup>		Fast: 50 μs (typ.); Middle: 100 μs (typ.); Slow: 300 μs (typ.)			
Ripple noise <sup>*21</sup>		0.5 Vrms / 1 Vrms (TYP)			
<div>*1 Three-phase, four-wire. Line to line voltage. *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 phases 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 superimposition, 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. *10 For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature range. *11 L1, L2 and L3 phase can be set independ at independ mode in the polyphase output. *12 Can be set only with independ mode in polyphase output. *13 For an output voltage of 50V or higher, sine wave, same load and voltage condition for all phase. *14 In the case of the AC mode and output voltage setting to 0 V, 23°C ± 5°C. *15 For an output voltage of -250 V to -10 V, +10 V to +250 V / -500 V to -20 V, +20 V to +500 V, no load, AC voltage set to 0V (AC+DC mode) and 23°C ± 5°C. *16 If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the AC superimposition, 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 or lower, AC and AC+DC modes, THD+N. For the polyphase output, it is a specification for phase voltage setting. *20 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. *21 For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.</div>					

## SPECIFICATIONS

ASR-6500			ASR-6660	
Measured Value Display (All accuracy of the measurement function is indicated for 23 °C±5 °C.)				
			Single-phase output	Polyphase output <sup>*6</sup>
Voltage <sup>*1*2</sup>	Resolution		0.01 V / 0.1 V	
	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 <sup>*3</sup>		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 <sup>*4</sup>	Resolution		0.01 A / 0.1 A	
	RMS value accuracy		45 Hz to 65 Hz and DC: ±(0.5 % of rdg + 0.1 A / 0.052 A) 15 Hz to 2000 Hz: ±(0.7 % of rdg + 0.4 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 <sup>*5</sup>		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)
Power <sup>*7*8</sup>	Active (W)	Resolution	0.1 W / 1 W	
		Accuracy <sup>*9</sup>	±(2 % of rdg + 3 W)	±(2 % of rdg + 1 W)
	Apparent (VA)	Resolution	0.1 VA / 1 VA	
		Accuracy	±(2 % of rdg + 6 VA)	±(2 % of rdg + 2 VA)
	Reactive (VAR)	Resolution	0.1 VAR / 1 VAR	
		Accuracy <sup>*10</sup>	±(2 % of rdg + 6 VAR)	±(2 % of rdg + 2 VAR)
Power factor		Range	0.000 to 1.000	
		Resolution	0.001	
Harmonic voltage Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		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 <sup>*12</sup>	Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)	
Harmonic current Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		Range	Up to 100th order of the fundamental wave	
		Full Scale	69.3 A / 34.65 A, 100%	23.1 A / 11.55 A, 100%
		Resolution	0.01 A / 0.1 A, 0.1%	
		Accuracy <sup>*13</sup>	Up to 20th: ±(1 % of rdg + 1.5 A / 0.75 A) 21th to 100th: ±(1.5 % of rdg + 1.5 A / 0.75 A)	Up to 20th: ±(1 % of rdg + 0.5 A / 0.25 A) 21th to 100th: ±(1.5 % of rdg + 0.5 A / 0.25 A)
<div>*1. In the polyphase output, the specification is for phase voltage, and the DC average value display cannot be selected.</div> <div>*2. Accuracy values are in the case that the output voltage is within voltage setting range.</div> <div>*3. The accuracy is for output waveform DC or sine wave only.</div> <div>*4. Accuracy values are in the case that the output current is 5% to 100% of the maximum current.</div> <div>*5. The accuracy is for output waveform DC or sine wave only.</div> <div>*6. In the polyphase output, these are the specifications for each phase.</div> <div>*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 frequency of 45 Hz to 65 Hz.</div> <div>*8. The apparent and reactive powers are not displayed in the DC mode.</div> <div>*9. For the load with the power factor 0.5 or higher.</div> <div>*10. For the load with the power factor 0.5 or lower.</div> <div>*11. The measurement does not conform to the IEC or other standard. Phase Voltage and Phase Current.</div> <div>*12. For an output voltage of 10 V to 175 V / 20 V to 350 V.</div> <div>*13. An output current in the range of 5 % to 100 % of the maximum current.</div>				
Others				
Protections		UVP, OVP, OCP, OTP, OPP, Fan Fail, Peak and RMS Current Limit		
Parallel function		Up to 6 units		
Display		TFT-LCD, 7 inch		
Memory function		Store and recall settings, Basic settings: 10		
Arbitrary wave	Number of memories		253 (nonvolatile)	
	Waveform length		4096 words	
	Amplitude resolution		16 bits	
General Specifications				
Interface	Standard	USB	Type A: Host, Type B: Slave, Speed: 2.0, USB-CDC / USB-TMC	
		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	
		RS-232C	Complies with the EIA-RS-232 specifications	
	Optional 1	GPIB	SCPI-1993, IEEE 488.2 compliant interface	
	Optional 2	CAN Bus	Complies with CAN 2.0A or 2.0B based protocol	
Insulation resistance	Between input and chassis, output and chassis, input and output	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 (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)		
Safety		EN 61010-1		
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. 45 kg		

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.

# SPECIFICATIONS

		ASR-6500-10		ASR-6660-13.2	
Input Ratings					
Power type		Three-phase Three-wire			
Voltage range <sup>*1</sup>		380 Vac to 415 Vac ±10 % line voltage			
Frequency range		47 Hz to 63 Hz			
Power factor <sup>*2</sup>		0.95 or higher (typ.)			
Efficiency <sup>*2</sup>		80 % or higher			
Maximum power consumption		12 kVA or lower		16 kVA or lower	
AC output					
Multi-phase output		Single-phase output	Polyphase output	Single-phase output	Polyphase output
Output capacity		10 kVA	1P3W: 6.6 kVA ; 3P4W: 10 kVA	13.2 kVA	1P3W: 8.8 kVA ; 3P4W: 13.2 kVA
Mode		1P2W	1P3W ; 3P4W (Y-connection)	1P2W	1P3W ; 3P4W (Y-connection)
Setting mode <sup>*3</sup>		---	Unbalance, Balanced	---	Unbalance, Balanced
Phase voltage	Setting Range <sup>*4</sup>	0.00 V to 175.0 V / 0.0 V to 350.0 V (sine and square wave), Setting Resolution: 0.01 V / 0.1 V			
	Accuracy <sup>*5</sup>	0.00 Vpp to 500.0 Vpp / 0.00 Vpp to 1000 Vpp (triangle and arbitrary wave), Setting Resolution: 0.01 Vpp / 0.1 Vpp / 1 Vpp			
Line voltage setting range <sup>*6</sup>		---	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 wave only) 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 wave only) Setting Resolution: 0.01 V / 0.1 V
Maximum current <sup>*7</sup>		100 A / 50 A	33.33 A / 16.67 A	132 A / 66 A	44 A / 22 A
Maximum peak current <sup>*8</sup>		Four times of the maximum RMS current			
Load power factor <sup>*9</sup>		0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)			
Frequency	Setting range	AC Mode: 15.00 Hz to 1000.0 Hz, AC+DC Mode: 1.00 Hz to 1000.0 Hz, Setting resolution: 0.01 Hz / 0.1 Hz			
	Accuracy	± 0.01% of set			
	Stability <sup>*10</sup>	± 0.005%			
Output on phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 1000 Hz)			
Output off phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 1000 Hz)			
Setting range of the phase angle <sup>*12</sup>		---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°
Phase angle accuracy <sup>*13</sup>			45 Hz to 65 Hz: ±1.0° 15 Hz to 1000 Hz: ±2.0°		45 Hz to 65 Hz: ±1.0° 15 Hz to 1000 Hz: ±2.0°
DC offset <sup>*14</sup>		± 20 mV (typ.)			
DC output (only single phase output)					
Output capacity		10 kW		13.2 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: 0.01 V / 0.1 V			
	Accuracy <sup>*15</sup>	±([0.3 % of set] + 0.3 V / 0.6 V)			
Maximum current <sup>*16</sup>		100 A / 50 A		132 A / 66 A	
Maximum peak current <sup>*17</sup>		Four times of the maximum current			
Output Stability, Total Harmonic Distortion, Output voltage rising time and Ripple noise					
Line regulation		±0.1% or less (Phase voltage)			
Load regulation <sup>*18</sup>		±0.5 V / ±1.0 V (phase voltage, 0 to 100%, via output terminal)			
Distortion of Output <sup>*19</sup>		<0.3 % @1Hz to 100Hz, <0.5 % @100.1 Hz to 500 Hz, <1 % @500.1 Hz to 1000 Hz			
Output voltage response time <sup>*20</sup>		Middle: 100 μs (typ.); Slow: 300 μs (typ.)			
Ripple noise <sup>*21</sup>		0.5 Vrms / 1 Vrms (TYP)			

\*1 Y connection is three-phase, five-wire, Delta connection is three-phase, four-wire.

\*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 phases 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 superimposition, 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.

\*10. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature range.

\*11. L1, L2 and L3 phase can be set independ at independ mode in the polyphase output.

\*12. Can be set only with independ mode in polyphase output.

\*13. For an output voltage of 50V or higher, sine wave, same load and voltage condition for all phase.

\*14. In the case of the AC mode and output voltage setting to 0 V, 23°C ± 5°C

\*15. For an output voltage of -250 V to -10 V, +10 V to +250 V / -500 V to -20 V, +20 V to +500 V, no load, AC voltage set to 0V (AC+DC mode) and 23°C ± 5°C

\*16. If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the AC superimposition, 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 either 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 or lower, AC and AC+DC modes, THD+N. For the polyphase output, it is a specification for phase voltage setting.

\*20. 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.

\*21. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.

## SPECIFICATIONS

ASR-6500-10				ASR-6660-13.2	
Measured Value Display (All accuracy of the measurement function is indicated for 23 °C±5 °C.)					
			Single-phase output		Polyphase output <sup>*6</sup>
Voltage <sup>*1*2</sup>	Resolution		0.01 V / 0.1 V		
	RMS value accuracy		45 Hz to 65 Hz and DC: ± (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 1000 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 1000 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 <sup>*3</sup>		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 <sup>*4</sup>	Resolution		0.01 A / 0.1 A		
	RMS value accuracy		45 Hz to 65 Hz and DC: ±(0.5 % of rdg + 0.2 A / 0.1 A) 15 Hz to 1000 Hz: ±(0.7 % of rdg + 0.4 A / 0.2 A)		45 Hz to 65 Hz: ±(0.5 % of rdg + 0.1 A / 0.05 A) 15 Hz to 1000 Hz: ±(0.7 % of rdg + 0.2 A / 0.1 A)
	AVG value accuracy		DC: ± ([0.5 % of rdg] + 0.4 A / 0.2 A)		DC: ± ([0.5 % of rdg] + 0.2 A / 0.1 A)
	PEAK value accuracy <sup>*5</sup>		45 Hz to 65 Hz and DC: ±([2 % of rdg] + 2 A / 1 A)		45 Hz to 65 Hz: ±([2 % of rdg] + 1 A / 0.5 A)
Power <sup>*7*8</sup>	Active (W)	Resolution	0.1 W / 1 W / 10 W		
		Accuracy <sup>*9</sup>	±(2 % of rdg + 6 W)		±(2 % of rdg + 2 W)
	Apparent (VA)	Resolution	0.1 VA / 1 VA / 10VA		
		Accuracy	±(2 % of rdg + 9 VA)		±(2 % of rdg + 3 VA)
	Reactive (VAR)	Resolution	0.1 VAR / 1 VAR / 10VAR		
		Accuracy <sup>*10</sup>	±(2 % of rdg + 9 VAR)		±(2 % of rdg + 3 VAR)
Power factor		Range	0.000 to 1.000		
		Resolution	0.001		
Harmonic voltage Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		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 <sup>*12</sup>	Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)		
Harmonic current Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		Range	Up to 100th order of the fundamental wave		
		Full Scale	105A / 52.5A, 100% (ASR-6500-10) 138.6A / 69.3A, 100% (ASR-6660-13.2)		35A / 17.5A, 100% (ASR-6500-10) 46.2A / 23.1A, 100% (ASR-6660-13.2)
		Resolution	0.01 A / 0.1 A, 0.1%		
		Accuracy <sup>*13</sup>	Up to 20th: ±(1 % of rdg + 3 A / 1.5 A) 21th to 100th: ±(1.5 % of rdg + 3 A / 1.5 A)		Up to 20th: ±(1 % of rdg + 1 A / 0.5 A) 21th to 100th: ±(1.5 % of rdg + 1 A / 0.5 A)
<div>*1. In the polyphase output, the specification is for phase voltage, and the DC average value display cannot be selected.</div> <div>*2. Accuracy values are in the case that the output voltage is within voltage setting range.</div> <div>*3. The accuracy is for output waveform DC or sine wave only.</div> <div>*4. Accuracy values are in the case that the output current is 5% to 100% of the maximum current.</div> <div>*5. The accuracy is for output waveform DC or sine wave only.</div> <div>*6. In the polyphase output, these are the specifications for each phase.</div> <div>*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 frequency of 45 Hz to 65 Hz.</div> <div>*8. The apparent and reactive powers are not displayed in the DC mode.</div> <div>*9. For the load with the power factor 0.5 or higher.</div> <div>*10. For the load with the power factor 0.5 or lower.</div> <div>*11. The measurement does not conform to the IEC or other standard. Phase Voltage and Phase Current.</div> <div>*12. For an output voltage of 10 V to 175 V / 20 V to 350 V.</div> <div>*13. An output current in the range of 5 % to 100 % of the maximum current.</div>					
Others					
Protections		UVP, OVP, OCP, OTP, OPP, Fan Fail, Peak and RMS Current Limit			
Display		TFT-LCD, 7 inch			
Memory function		Store and recall settings, Basic settings: 10			
Arbitrary wave	Number of memories		253 (nonvolatile)		
	Waveform length		4096 words		
	Amplitude resolution		16 bits		
General Specifications					
Interface	Standard	USB	Type A: Host, Type B: Slave, Speed: 2.0, USB-CDC / USB-TMC		
		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		
		RS-232C	Complies with the EIA-RS-232 specifications		
	Optional 1	GPIO	SCPI-1993, IEEE 488.2 compliant interface		
	Optional 2	CAN Bus	Complies with CAN 2.0A or 2.0B based protocol		
Insulation resistance	Between input and chassis, output and chassis, input and output	Optional 3	Complies with CAN 2.0A or 2.0B based protocol		
		Device Net			
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 (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)			
Safety		EN 61010-1			
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)		598(W)×937(H)×906(D) (not including protrusions)			
Weight		Approx. 155 kg			

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.

# SPECIFICATIONS

		ASR-6500-15		ASR-6660-19.8	
Input Ratings					
Power type		Three-phase Three-wire			
Voltage range <sup>*1</sup>		380 Vac to 415 Vac ±10 % line voltage			
Frequency range		47 Hz to 63 Hz			
Power factor <sup>*2</sup>		0.95 or higher (typ.)			
Efficiency <sup>*2</sup>		80 % or higher			
Maximum power consumption		18 kVA or lower		24 kVA or lower	
AC Output					
Multi-phase output		Single-phase output	Polyphase output	Single-phase output	Polyphase output
Output capacity		15 kVA	1P3W: 10 kVA ; 3P4W: 15 kVA	19.8 kVA	1P3W: 13.2 kVA ; 3P4W: 19.8 kVA
Mode		1P2W	1P3W ; 3P4W (Y-connection)	1P2W	1P3W ; 3P4W (Y-connection)
Setting mode <sup>*3</sup>		---	Unbalance, Balanced	---	Unbalance, Balanced
Phase voltage	Setting Range <sup>*4</sup>	0.00 V to 175.0 V / 0.0 V to 350.0 V (sine and square wave), Setting Resolution: 0.01 V / 0.1 V			
		0.00 Vpp to 500.0 Vpp / 0.00 Vpp to 1000 Vpp (triangle and arbitrary wave), Setting Resolution: 0.01 Vpp / 0.1 Vpp / 1 Vpp			
Accuracy <sup>*5</sup>		±(0.3 % of set + 0.5 V / 1 V)			
Line voltage setting range <sup>*6</sup>		---	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 wave only) 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 wave only) Setting Resolution: 0.01 V / 0.1 V
Maximum current <sup>*7</sup>		150 A / 75 A	50 A / 25 A	198 A / 99 A	66 A / 33 A
Maximum peak current <sup>*8</sup>		Four times of the maximum RMS current			
Load power factor <sup>*9</sup>		0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)			
Frequency	Setting range	AC Mode: 15.00 Hz to 1000.0 Hz, AC+DC Mode: 1.00 Hz to 1000.0 Hz, Setting resolution: 0.01 Hz / 0.1 Hz			
	Accuracy	± 0.01% of set			
	Stability <sup>*10</sup>	± 0.005%			
Output on phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 1000 Hz)			
Output off phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 1000 Hz)			
Setting range of the phase angle <sup>*12</sup>		---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°
Phase angle accuracy <sup>*13</sup>			45 Hz to 65 Hz: ±1.0° 15 Hz to 1000 Hz: ±2.0°		45 Hz to 65 Hz: ±1.0° 15 Hz to 1000 Hz: ±2.0°
DC Offset <sup>*14</sup>		± 20 mV (typ.)			
DC output (only single phase output)					
Output Capacity		15 kW		19.8 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: 0.01 V / 0.1 V			
	Accuracy <sup>*15</sup>	±( 0.3 % of set  + 0.3 V / 0.6 V)			
Maximum current <sup>*16</sup>		150 A / 75 A		198 A / 99 A	
Maximum peak current <sup>*17</sup>		Four times of the maximum current			
Output Stability, Total Harmonic Distortion, Output voltage rising time and Ripple noise					
Line regulation		±0.1% or less (Phase voltage)			
Load regulation <sup>*18</sup>		±0.5 V / ±1.0 V (phase voltage, 0 to 100%, via output terminal)			
Distortion of Output <sup>*19</sup>		<0.3 % @1Hz to 100Hz, <0.5 % @100.1 Hz to 500 Hz, <1 % @500.1 Hz to 1000 Hz			
Output voltage response time <sup>*20</sup>		Middle: 100 μs (typ.); Slow: 300 μs (typ.)			
Ripple noise <sup>*21</sup>		0.5 Vrms / 1 Vrms (TYP)			

\*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 phases 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  $\pm 5^\circ\text{C}$ .

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 superimposition, 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.

\*10. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature range.

\*11. L1, L2 and L3 phase can be set independ at independ mode in the polyphase output.

\*12. Can be set only with independ mode in polyphase output.

\*13. For an output voltage of 50V or higher, sine wave, same load and voltage condition for all phase.

\*14. In the case of the AC mode and output voltage setting to 0 V, 23°C  $\pm 5^\circ\text{C}$

\*15. For an output voltage of -250 V to -10 V, +10 V to +250 V / -500 V to -20 V, +20 V to +500 V, no load, AC voltage set to 0V (AC+DC mode) and 23°C  $\pm 5^\circ\text{C}$

\*16. If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the AC superimposition, 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 eithin 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 or lower, AC and AC+DC modes, THD+N. For the polyphase output, it is a specification for phase voltage setting.

\*20. 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.

\*21. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.

## SPECIFICATIONS

ASR-6500-15			ASR-6660-19.8	
Measured Value Display (All accuracy of the measurement function is indicated for 23 °C±5 °C.)				
			Single-phase output	Polyphase output <sup>*6</sup>
Voltage <sup>*1*2</sup>	Resolution		0.01 V / 0.1 V	
	RMS value accuracy		45 Hz to 65 Hz and DC: ± (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 1000 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 1000 Hz: ± (0.7 % of rdg + 1 V / 2 V)
	AVG value accuracy		DC: ± ([0.5 % of rdg] + 0.5 V / 1 V)	
	PEAK value accuracy <sup>*3</sup>		45 Hz to 65 Hz and DC: ±([2 % of rdg] + 1 V / 2 V)	
Current <sup>*4</sup>	Resolution		0.01 A / 0.1 A	
	RMS value accuracy		45 Hz to 65 Hz and DC: ±(0.5 % of rdg + 0.3 A / 0.15 A) 15 Hz to 1000 Hz: ±(0.7 % of rdg + 0.6 A / 0.4 A)	45 Hz to 65 Hz: ±(0.5 % of rdg + 0.15 A / 0.08 A) 15 Hz to 1000 Hz: ±(0.7 % of rdg + 0.3 A / 0.15 A)
	AVG value accuracy		DC: ± ([0.5 % of rdg] + 0.6 A / 0.4 A)	
	PEAK value accuracy <sup>*5</sup>		45 Hz to 65 Hz and DC: ±([2 % of rdg] + 3 A / 1.5 A)	
Power <sup>*7*8</sup>	Active (W)	Resolution	0.1 W / 1 W / 10 W	
		Accuracy <sup>*9</sup>	±(2 % of rdg + 6 W)	
	Apparent (VA)	Resolution	0.1 VA / 1 VA / 10VA	
		Accuracy	±(2 % of rdg + 9 VA)	
	Reactive (VAR)	Resolution	0.1 VAR / 1 VAR / 10VAR	
		Accuracy <sup>*10</sup>	±(2 % of rdg + 9 VAR)	
Power factor		Range	0.000 to 1.000	
		Resolution	0.001	
Harmonic voltage Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		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 <sup>*12</sup>	Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)	
Harmonic current Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		Range	Up to 100th order of the fundamental wave	
		Full Scale	157.5A / 78.75A, 100% (ASR-6500-15) 207.9A / 103.95A, 100% (ASR-6660-19.8)	52.5A / 26.25A, 100% (ASR-6500-15) 69.3A / 34.65A, 100% (ASR-6660-19.8)
		Resolution	0.01 A / 0.1 A, 0.1%	
		Accuracy <sup>*13</sup>	Up to 20th: ±(1 % of rdg + 3 A / 1.5 A) 21th to 100th: ±(1.5 % of rdg + 3 A / 1.5 A)	Up to 20th: ±(1 % of rdg + 1 A / 0.5 A) 21th to 100th: ±(1.5 % of rdg + 1 A / 0.5 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 frequency 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.				
Others				
Protections		UVP, OVP, OCP, OTP, OPP, Fan Fail, Peak and RMS Current Limit		
Display		TFT-LCD, 7 inch		
Memory function		Store and recall settings, Basic settings: 10		
Arbitrary wave	Number of memories		253 (nonvolatile)	
	Waveform length		4096 words	
	Amplitude resolution		16 bits	
General Specifications				
Interface	Standard	USB	Type A: Host, Type B: Slave, Speed: 2.0, USB-CDC / USB-TMC	
		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	
		RS-232C	Complies with the EIA-RS-232 specifications	
	Optional 1	GPIOB	SCPI-1993, IEEE 488.2 compliant interface	
	Optional 2	CAN Bus	Complies with CAN 2.0A or 2.0B based protocol	
Insulation resistance	Between input and chassis, output and chassis, input and output	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 (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)		
Safety		EN 61010-1		
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)		598(W)x1116(H)x906(D) (not including protrusions)		
Weight		Approx. 200 kg		

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.

SPECIFICATIONS								
		ASR-6660-26.4		ASR-6660-33		ASR-6660-39.6		
Input Ratings								
Power type		Three-phase Three-wire						
Voltage range <sup>*1</sup>		380 Vac to 415 Vac ±10 % line voltage						
Frequency range		47 Hz to 63 Hz						
Power factor <sup>*2</sup>		0.95 or higher (typ.)						
Efficiency <sup>*2</sup>		80 % or higher						
Maximum power consumption		32 kVA or lower		40 kVA or lower		48 kVA or lower		
AC Output								
Multi-phase output		Single-phase output	Polyphase output	Single-phase output	Polyphase output	Single-phase output	Polyphase output	
Output capacity		26.4 kVA	1P3W: 17.6 kVA ; 3P4W: 26.4 kVA	33 kVA	1P3W: 22 kVA ; 3P4W: 33 kVA	39.6 kVA	1P3W: 26.4 kVA ; 3P4W: 39.6 kVA	
Mode		1P2W	1P3W ; 3P4W (Y-connection)	1P2W	1P3W ; 3P4W (Y-connection)	1P2W	1P3W ; 3P4W (Y-connection)	
Setting mode <sup>*3</sup>		---	Unbalance, Balanced	---	Unbalance, Balanced	---	Unbalance, Balanced	
Phase voltage		Setting Range <sup>*4</sup>	0.00 V to 175.0 V / 0.0 V to 350.0 V (sine and square wave), Setting Resolution: 0.01 V / 0.1 V					
		Accuracy <sup>*5</sup>	0.00 Vpp to 500.0 Vpp / 0.00 Vpp to 1000 Vpp (triangle and arbitrary wave), Setting Resolution: 0.01 Vpp / 0.1 Vpp / 1 Vpp ±(0.3 % of set + 0.5 V / 1 V)					
Line voltage setting range <sup>*6</sup>		---	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 wave only) 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 wave only) 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	
Maximum current <sup>*7</sup>		264 A / 132 A	88 A / 44 A	330 A / 165 A	110 A / 55 A	396 A / 198 A	132 A / 66 A	
Maximum peak current <sup>*8</sup>		Four times of the maximum RMS current						
Load power factor <sup>*9</sup>		0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)						
Frequency		Setting range	AC Mode: 15.00 Hz to 550.0 Hz, AC+DC Mode: 1.00 Hz to 550.0 Hz, Setting resolution: 0.01 Hz / 0.1 Hz					
		Accuracy	± 0.01 % of set					
		Stability <sup>*10</sup>	± 0.005 %					
Output on phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 550 Hz)						
Output off phase setting range <sup>*11</sup>		0.0° to 359.9° variable (Free / Fix selectable), 0.1° (1 Hz to 500 Hz), 1° (500 Hz to 550 Hz)						
Setting range of the phase angle <sup>*12</sup>		---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	---	3P4W: L2 phase: 0° to 359.9° L3 phase: 0° to 359.9° Setting Resolution: 0.1°	
Phase angle accuracy <sup>*13</sup>		---	45 Hz to 65 Hz: ±1.0° 15 Hz to 550 Hz: ±2.0°	---	45 Hz to 65 Hz: ±1.0° 15 Hz to 550 Hz: ±2.0°	---	45 Hz to 65 Hz: ±1.0° 15 Hz to 550 Hz: ±2.0°	
DC offset <sup>*14</sup>		± 20 mV (typ.)						
DC Output (only single phase output)								
Output capacity		26.4 kW		33 kW		39.6 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: 0.01 V / 0.1 V					
		Accuracy <sup>*15</sup>	±( 0.3 % of set  + 0.3 V / 0.6 V)					
Maximum current <sup>*16</sup>		264 A / 132 A		330 A / 165 A		396 A / 198 A		
Maximum peak current <sup>*17</sup>		Four times of the maximum current						
Output Stability, Total Harmonic Distortion, Output Voltage Rising Time and Ripple Noise								
Line regulation		±0.1 % or less (Phase voltage)						
Load regulation <sup>*18</sup>		±1 V (phase voltage, 0 % to 100 %, via output terminal)						
Distortion of Output <sup>*19</sup>		<0.3 % @1 Hz to 100 Hz, <0.5 % @100.1 Hz to 550 Hz						
Output voltage response time <sup>*20</sup>		Slow: 300 μs (typ.)						
Ripple noise <sup>*21</sup>		0.5 Vrms / 1 Vrms (TYP)						
<div>*1 Y connection is three-phase, five-wire, Delta connection is three-phase, four-wire. (Accessories will be provided)</div> <div>*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.</div> <div>*3 Can be only set in 3P4W mode.</div> <div>*4 For phase voltage setting in polyphase output. In balance mode all phase are collectively set and in unbalance mode each phases are individually set.</div> <div>*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.</div> <div>*6 Line voltage only can be set in balance mode.</div> <div>*7 If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the DC superimposition, 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.</div> <div>*8 With respect to the capacitor-input rectifying load. Limited by the maximum current.</div> <div>*9 External power injection or regeneration which is over short reverse power flow capacity is not available.</div> <div>*10 For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature range.</div> <div>*11 L1, L2 and L3 phase can be set independ at independ mode in the polyphase output.</div> <div>*12 Can be set only with independ mode in polyphase output.</div> <div>*13 For an output voltage of 50 V or higher, sine wave, same load and voltage condition for all phase.</div> <div>*14 In the case of the AC mode and output voltage setting to 0 V, 23 °C ± 5 °C</div> <div>*15 For an output voltage of -250 V to -10 V, +10 V to +250 V / -500 V to -20 V, +20 V to +500 V, no load, AC voltage set to 0 V (AC+DC mode) and 23 °C ± 5 °C</div> <div>*16 If the output voltage is higher than rated value, this is limited to satisfy the power capacity. If there is the AC superimposition, the active current of AC+DC satisfies the maximum current.</div> <div>And the ambient temperature is 40 degree or higher, the maximum current may decrease.</div> <div>*17. Instantaneous eithin 3 ms, limited by the maximum current at rated output voltage.</div> <div>*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.</div> <div>*19. 50 % or higher of the rated output voltage, the maximum current or lower, AC and AC+DC modes, THD+N. For the polyphase output, it is a specification for phase voltage setting.</div> <div>*20. 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 % to 90 % of output voltage.</div> <div>*21. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.</div>								
Measured Value Display (All accuracy of the measurement function is indicated for 23 °C±5 °C.)								
		Single-phase output			Polyphase output <sup>*6</sup>			
Voltage <sup>*1*2</sup>		Resolution	0.01 V / 0.1 V					
		RMS value accuracy	45 Hz to 65 Hz and DC: ± (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 550 Hz: ± (0.7 % of rdg + 1 V / 2 V)					
		AVG value accuracy	DC: ± ( 0.5 % of rdg  + 0.5 V / 1 V)					
		PEAK value accuracy <sup>*3</sup>	45 Hz to 65 Hz and DC: ±( 2 % of rdg  + 1 V / 2 V)					
Current <sup>*4</sup>		Resolution	0.01 A / 0.1 A					
		RMS value accuracy	45 Hz to 65 Hz: ±(0.5 % of rdg + 0.3 A / 0.15 A) 15 Hz to 550 Hz: ±(0.7 % of rdg + 0.6 A / 0.4 A)			45 Hz to 65 Hz: ±(0.5 % of rdg + 0.15 A / 0.08 A) 15 Hz to 550 Hz: ±(0.7 % of rdg + 0.3 A / 0.15 A)		
		AVG value accuracy	DC: ± ( 0.5 % of rdg  + 0.6 A / 0.4 A)			DC: ± ( 0.5 % of rdg  + 0.3 A / 0.15 A)		
		PEAK value accuracy <sup>*5</sup>	45 Hz to 65 Hz and DC: ±( 2 % of rdg  + 3 A / 1.5 A)			45 Hz to 65 Hz and DC: ±( 2 % of rdg  + 1.5 A / 0.75 A)		

SPECIFICATIONS			ASR-6660-26.4		ASR-6660-33		ASR-6660-39.6	
Power <sup>*7,8</sup>	Active (W)	Resolution	0.1 W / 1 W / 10 W		45 Hz to 65 Hz and DC: ±(2 % of rdg + 9 W)		45 Hz to 65 Hz and DC: ±(2 % of rdg + 3 W)	
		Accuracy <sup>*9</sup>						
	Apparent (VA)	Resolution	0.1 VA / 1 VA / 10VA		45 Hz to 65 Hz: ±(2 % of rdg + 18 VA)		45 Hz to 65 Hz: ±(2 % of rdg + 6 VA)	
		Accuracy						
	Reactive (VAR)	Resolution	0.1 VAR / 1 VAR / 10VAR		45 Hz to 65 Hz: ±(2 % of rdg + 18 VAR)		45 Hz to 65 Hz: ±(2 % of rdg + 6 VAR)	
Accuracy <sup>*10</sup>								
Power factor		Range	0.000 to 1.000		0.001			
		Resolution						
Harmonic voltage Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		Range	Up to 100th order of the fundamental wave		200 V / 400 V, 100 %			
		Full Scale						
		Resolution	0.01 V / 0.1 V, 0.1%		Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)			
		Accuracy <sup>*12</sup>						
Harmonic current Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only) <sup>*11</sup>		Range	Up to 100th order of the fundamental wave		277.2A / 138.6A, 100% (ASR-6660-26.4) 346.5A / 173.25A, 100% (ASR-6660-33) 415.8A / 207.9A, 100% (ASR-6660-39.6)		92.4A / 46.2A, 100% (ASR-6660-26.4) 115.5A / 57.75A, 100% (ASR-6660-33) 138.6A / 69.3A, 100% (ASR-6660-39.6)	
		Full Scale						
		Resolution	0.01 A / 0.1 A / 1 A, 0.1%		Up to 20th: ±(1 % of rdg + 3 A / 1.5 A) 21th to 100th: ±(1.5 % of rdg + 3 A / 1.5 A)		Up to 20th: ±(1 % of rdg + 1 A / 0.5 A) 21th to 100th: ±(1.5 % of rdg + 1 A / 0.5 A)	
		Accuracy <sup>*13</sup>						
<div>*1. In the polyphase output, the specification is for phase voltage, and the DC average value display cannot be selected.</div> <div>*2. Accuracy values are in the case that the output voltage is within voltage setting range.</div> <div>*3. The accuracy is for output waveform DC or sine wave only.</div> <div>*4. Accuracy values are in the case that the output current is 5 % to 100 % of the maximum current.</div> <div>*5. The accuracy is for output waveform DC or sine wave only.</div> <div>*6. In the polyphase output, these are the specifications for each phase.</div> <div>*7. For an output voltage of 50 V or greater, an output current in the range of 10 % to 100 % of the maximum current.</div> <div>*8. The apparent and reactive powers are not displayed in the DC mode.</div> <div>*9. For the load with the power factor 0.5 or higher.</div> <div>*10. For the load with the power factor 0.5 or lower.</div> <div>*11. The measurement does not conform to the IEC or other standard. Phase Voltage and Phase Current.</div> <div>*12. For an output voltage of 10 V to 175 V / 20 V to 350 V.</div> <div>*13. An output current in the range of 5 % to 100 % of the maximum current.</div>								
Others								
Protections			UVP, OVP, OCP, OTP, OPP, Fan Fail, Peak and RMS Current Limit					
Display			TFT-LCD, 7 inch					
Memory function			Store and recall settings, Basic settings: 10					
Arbitrary wave	Number of memories		253 (nonvolatile)					
	Waveform length		4096 words					
	Amplitude resolution		16 bits					
General Specifications								
Interface	Standard	USB	Type A: Host, Type B: Slave, Speed: 2.0, USB-CDC / USB-TMC					
		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					
		RS-232C	Complies with the EIA-RS-232 specifications					
	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	Device Net	Complies with CAN 2.0A or 2.0B based protocol						
Insulation resistance		Between input and chassis, output and chassis, input and output	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 (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					
Safety			EN 61010-1					
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) (not including protrusions)			598(W)×1294(H)×906(D)		598(W)×1472(H)×906(D)		598(W)×1650(H)×906(D)	
Weight			Approx. 250 kg		Approx. 305 kg		Approx. 370 kg	

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.

ASR-6500-15/6660-19.8 (Three units)

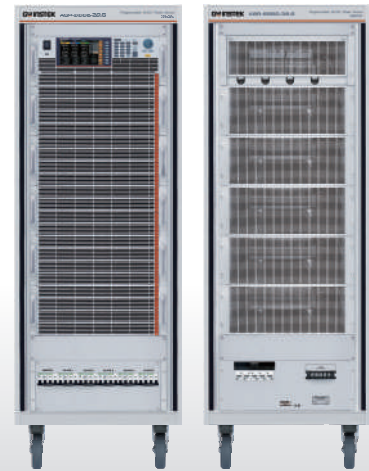
ASR-6500-10/6660-13.2 (Two units)



ASR-6660-39.6 (Six units)

ASR-6660-33 (Five units)

ASR-6660-26.4 (Four units)



Specifications subject to change without notice. ASR-6500\_6660ID1BH

#### ORDERING INFORMATION

ASR-6500	5 kVA	AC/DC Programming Source
ASR-6500-10	10 kVA	AC/DC Rack Type Power Source
ASR-6500-15	15 kVA	AC/DC Rack Type Power Source
ASR-6660	6.6 kVA	AC/DC Programming Source
ASR-6660-13.2	13.2 kVA	AC/DC Rack Type Power Source
ASR-6660-19.8	19.8 kVA	AC/DC Rack Type Power Source
ASR-6660-26.4	26.4 kVA	AC/DC Rack Type Power Source
ASR-6660-33	33 kVA	AC/DC Rack Type Power Source
ASR-6660-39.6	39.6 kVA	AC/DC Rack Type Power Source

#### ACCESSORIES

QuickStart Guide x 1, Safety guide x 1,  
Input terminal cover x 1, Output terminal cover x 1  
Copper plate for 1P output (Mark 4) x 1  
**GRA-451-E** Rack mount adapter(EIA) (Stand-alone models only),  
**GTL-246** USB cable (USB 2.0 Type A - Type B cable, approx. 1.2 m)

#### OPTION ACCESSORIES

ASR-003	GPIO interface card
ASR-004	DeviceNet interface card
ASR-005	CAN BUS interface card
ASR-006	External parallel cable (For ASR-6500/6660 use only)
GRA-451-E	Rack mount adapter (EIA)
GRA-451-J	Rack mount adapter (JIS)
GPW-014	6RV4 UL POWER CORD 10AWG/4C, 3 m Max Length, 105oC ,RVS5-5*4P, RVS5-5*4P UL TYPE
GPW-015	6RVV4 VDE POWER CORD 2.5 mm2/4C, 3 m Max Length, 105oC ,RVS3-5*4P, RVS3-5*4P VDE TYPE
GPW-016	6RVT4 PSE POWER CORD 2.0 mm2/4C, 3 m Max Length, 105oC ,RVS2-5*4P, RVS2-5*4P PSE TYPE
ASR-C003	Modbus TCP feature
GTL-232	RS-232C Cable, approx. 2 m
GTL-248	GPIO Cable, approx. 2 m

Specifications subject to change without notice. ASR-6500\_6600\_BH1-202511

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