ASR-6000 Series Parallel Models Specifications

SPECIFICATIONS					
Model		ASR-6600-24			
Input Ratings					
Power type		Three-phase Three-wire Delta connection Three-phase Four-wire Y connection			
Voltage range *1		200 vac to 240 Vac (Phase Voltage) 380 Vac to 460 Vac (Line Voltage)			
Frequency range		47 Hz to 63 Hz			
Power factor ^{*2}		0.95 or higher (typ.)			
Efficiency*2		80 % or higher			
Maximum power consumption		32 kVA or lower			
		32 877 67 108 67			
AC Output					
Multi-phase output		Single-phase output	Polyphase output		
Output capacity		24 kVA	1P3W: 16 kVA 3P4W: 24 kVA		
Mode		1P2W	1P3W 3P4W (Y-connection)		
Setting mode ^{*3}		***	Unbalance, Balanced		
		0.00 V to 175.0 V / 0.0 V to 350.0 V (sine and square	e wave), Setting Resolution: 0.01 V / 0.1 V		
Phase voltage	Setting Range*4	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*5	±(0.3 % of set + 0.5 V / 1 V)			
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 wave only) Setting Resolution: 0.01 V / 0.1 V		
Maximum current ^{*7}		240 A / 120 A	80 A / 40 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	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			
Frequency	Accuracy	± 0.01% of set			
*11	Stability*10	± 0.005%			
Output on phase setting range *11 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 550 Hz) 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 *12			3P4W: 1.2 phase: 0° to 359.9° 1.3 phase: 0° to 359.9° Setting Resolution: 0.1°		
Phase angle accuracy *13			45 Hz to 65 Hz: ±1.0° 15 Hz to 550 Hz: ±2.0°		
DC offset*14		± 20 mV (typ.)	<u> </u>		
DC output (only single phase output)					
Output Capacity			24 kW		
Mode		Floating output, the N terminal can be grounded			
Voltage	Setting Range Accuracy*15		-250.0 V to +250.0 V / -500.0 V to +500.0 V, Setting Resolution: 0.01 V / 0.1 V		
Maximum current*16	Accuracy	±(10.3 % 01 set + 0.3 * / 0.0 *) 240 / 120 A			
Maximum peak current*17		Four times of the maximum current			
Output Stability, Total Harmonic Distort	ion. Output voltage rising tim	l.			
Line regulation		±0.1% or less (Phase voltage)			
Load regulation *18		±1 V / ±2 V (phase voltage, 0 to 100%, via output terminal)			
Distortion of Output ^{*19}		<0.3 % @ 1Hz to 100Hz, <0.5 % @ 100.1 Hz to 550 Hz			
Output voltage response time *20		Medium: 100 μs (typ.) ; Slow: 300 μs (typ.)			
Ripple noise *21		0.5 Vrms / 1 Vrms (TYP)			
*1 Y connection is three-phase, five-wire, Delta connection	n is three-phase, four-wire.				

- 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.

- 2. In title table of No. 11 in 194W 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.
- **S. 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 a 5°C. For phase voltage setting in the polyphase output.

 **A. 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 superimmposition, 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 one other trevers 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 an independ mode in the polyphase output.

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

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

 *14. In the case of the AC mode and output voltage setting to V, 23°C a 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 a 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 superimmposition, the active current of AC+DC satisfies the maximum current.

 And the ambient temperature is 40 degree or higher, the maximum current area 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 to 150 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. 90 % 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.

Measured value display (All accuracy of the measurement function is indicated for 23 °C±5 °C.)

			Single-phase output	Polyphase output*6		
	Resolution		0.01 V / 0.1 V	0.01 V / 0.1 V		
Voltage ^{*1*2}	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)	45 Hz to 65 Hz: ± (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)	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)		
<u> </u>	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 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	*5	45 Hz to 65 Hz and DC: ±(2 % of rdg + 3 A / 1.5 A)	45 Hz to 65 Hz: ±(2 % of rdg + 1.5 A / 0.75 A)		
	Active (W)	Resolution	0.1 W / 1 W / 10 W	<u> </u>		
	Active (w)	Accuracy*9	±(2 % of rdg + 9 W)	±(2 % of rdg + 3 W)		
Power*7*8	Apparent (VA)	Resolution	0.1 VA / 1 VA / 10VA			
Power · -	Apparent (VA)	Accuracy	±(2 % of rdg + 18 VA)	±(2 % of rdg + 6 VA)		
	Danation (MAD)	Resolution	0.1 VAR / 1 VAR / 10VAR	, ,		
	Reactive (VAR)	Accuracy*10	±(2 % of rdg + 18 VAR)	±(2 % of rdg + 6 VAR)		
p (.	•	Range	0.000 to 1.000			
Power factor		Resolution	0.001			
		Range	Up to 100th order of the fundamental wave	Up to 100th order of the fundamental wave		
Harmonic voltage		Full Scale	200 V / 400 V, 100%	200 V / 400 V. 100%		
Effective value (rms) Percent (%) (AC-INT and 50/60 Hz only)*11		Resolution	0.01 V /0.1 V, 0.1%			
		Accuracy*12	Up to 20th: ±(0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: ±(0.3 % of rdg + 0.5 V / 1 V)			
		Range	Up to 100th order of the fundamental wave			
Harmonic current		Full Scale	252 A / 126 A. 100%	84 A / 42 A, 100%		
Effective value (rms)		Resolution	0.01 A / 0.1 A / 1 A, 0.1%	1		
Percent (%) (AC-INT and 50/60 Hz only)*11		Accuracy*13	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 w	oltage, and the DC average valu				
	ne case that the output voltage is		, .,			
	ut waveform DC or sine wave or					
	ne case that the output current is	,	current.			
	ut waveform DC or sine wave or					
*6. In the polyphase output,	these are the specifications for	each phase.				
*7. For an output voltage of	50 V or greater, an output curre	ent 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	ve powers are not displayed in the	he DC mode.				
*9. For the load with the pov						
*10. For the load with the po	ower factor 0.5 or lower.					
*11. The measurement does	not conform to the IEC or othe	er standard. Phase Voltage and	Phase Current.			
	of 10 V to 175 V / 20 V to 350 V.	•				
*13. An output current in the	e range of 5 % to 100 % of the r	naximum current.				
Others						
Jaion						

	range or 3 70 to 100 70 or the				
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 resolutio	on	16 bits		
General Specification	ons				
	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		
Interface	Standard	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			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 61300-3-2 (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 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) EN 55011 (Class A, Croup 1)		
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		nge	90 % RH or less (no condensation)		
Altitude			Up to 2000 m		
Dimensions (mm) (not including protrusions))	598(W)×1294(H)×906(D)		
Weight			Approx. 250 kg		

Weight Approx. 250 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.