SPECIFICATIONS								
			ASR-6660-26.4		ASR-6660-33	ASR-6660-39.6		
Input Ratings								
Power type		Three-phase Three-wire						
Voltage range ^{*1}		380 Vac to 415 Vac ±10 % 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 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 ^{*3}			Unbalance, Balanced		Unbalance, Balanced		Unbalance, Balanced	
Jetting mode	1	0.00 V to 1		uare wave) Settin			Onbalance, balanced	
Phase voltage	Setting Range*4	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						
Phase voltage	*5	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)						
	Accuracy ^{*5}	±(0.3 % 01	1P3W: 0.00 V to 350.0 V / 0.00 V		1P3W: 0.00 V to 350.0 V / 0.00 V		1P3W: 0.00 V to 350.0 V / 0.00 V	
Line voltage setting range ^{*6}			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		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		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	
.*7		264 A 7122 A		220 A / 165 A		20C A / 109 A	132 A / 66 A	
Maximum current*7		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 ^{*8}		Four times of the maximum RMS current						
Load power factor*9	la	0 to 1 (leading phase or lagging phase, 45 Hz to 65Hz)						
F	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						
211	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 550 Hz)						
Output off phase setting range ^{*11}		0.0° to 359.	9° variable (Free / Fix selectable), 0.1	° (1 Hz to 500 Hz	, ,			
Setting range of the phase angle ^{*12}			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*13			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 ^{*14}		± 20 mV (typ.)						
DC Output (only single phase outpu	ıt)							
Output capacity		26.4 kW		33 kW		39.6 kW		
Mode			tput, 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 ±(0.3 % of set + 0.3 V / 0.6 V)						
Maximum current *16		264 A / 132 A 330 A / 165 A 396 A / 198 A						
Maximum peak current ^{*17}		Four times of the maximum current						
Output Stability, Total Harmonic Di	stortion, Output V							
Line regulation		±0.1 % or less (Phase voltage)						
Load regulation *18		±1 V (phase voltage, 0 % to 100 %, via output terminal)						
Distortion of Output *19		<0.3 % @1 Hz to 100 Hz, <0.5 % @100.1 Hz to 550 Hz						
Output voltage response time *20		<0.3 % @1 Hz to 100 Hz, <0.3 % @100.1 Hz to 330 Hz Slow: 300 µs (typ.)						
Output voltage response time *20		, ,,,,,						
Ripple noise ^{*21}		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 3P4W mode.

CDECIFICATIONS

- *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 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 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 50 V 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 $^{\circ}$ C \pm 5 $^{\circ}$ 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 0 V (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 constitute the AC superimmentation, the active surrent of AC+D
- *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 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 % to 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}			
Voltage ^{*1*2}	Resolution	0.01 V / 0.1 V				
	RMS value accuracy	45 Hz to 65 Hz and DC: \pm (0.5 % of rdg + 0.5 V / 1 V) 15 Hz to 550 Hz: \pm (0.7 % of rdg + 1 V / 2 V)				
	AVG value accuracy	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)				
Current ^{*4}	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*5	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)			
	Active (X/) Resolution	0.1 W / 1 W / 10 W				

•	MELIVE (W)			_ _		
Power ^{*7*8}	7.cu.re ()	Accuracy*9	45 Hz to 65 Hz and DC: \pm (2 % of rdg + 9 W)	45 Hz to 65 Hz and DC: \pm (2 % of rdg + 3 W)		
	Apparent (VA)	Resolution	0.1 VA / 1 VA / 10VA			
		Accuracy	45 Hz to 65 Hz: ±(2 % of rdg + 18 VA)	45 Hz to 65 Hz: ±(2 % of rdg + 6 VA)		
		Resolution	0.1 VAR / 1 VAR / 10VAR			
		Accuracy*10	45 Hz to 65 Hz: ±(2 % of rdg + 18 VAR)	45 Hz to 65 Hz: ±(2 % of rdg + 6 VAR)		
Power factor		Range	0.000 to 1.000			
		Resolution	0.001			
Harmonic voltage		Range	Up to 100th order of the fundamental wave			
		Full Scale	200 V / 400 V, 100 %			
Percent (%)	Effective value (rms)		0.01 V /0.1 V, 0.1%			
(AC-INT and 50/60 Hz only)*11		Accuracy ^{*12}	Up to 20th: \pm (0.2 % of rdg + 0.5 V / 1 V) 21th to 100th: \pm (0.3 % of rdg + 0.5 V / 1 V)			
Harmonic current Effective value (rms)		Range	Up to 100th order of the fundamental wave			
		Full Scale	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)		
Percent (%)	*11	Resolution	0.01 A / 0.1 A / 1 A, 0.1%			
(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 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.
- \star 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.
- *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.

*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					
	Number of memories		253 (nonvolatile)					
Arbitrary wave	Waveform length		4096 words					
	Amplitude resolution		16 bits					
General Specification	ns							
Interface		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	Detrices input and enables,		DC 500 V, 30 M Ω 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 Altitude		dity range	90 % RH or less (no condensation)					
			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.