

ASR-2000 Series

Compact Programmable AC/DC Power Supply

FEATURES

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



Colistrame

The ASR-2000 series, an AC+DC power source aiming for system integration or desktop applications, provides both rated power output for AC output and rated power output for DC output. Nine ASR-2000 output modes are available, including 1) AC power output mode (AC-INT Mode), 2) DC power output mode (DC-INT Mode), 3) AC/DC power output mode (AC+DC-INT Mode), 4) External AC signal source mode (AC-EXT Mode), 5) External AC/DC signal source mode (AC+DC-EXT Mode), 6) External AC signal superposition mode (AC-ADD Mode), 7) External AC/DC signal superposition mode (AC+DC-ADD Mode), 8) External AC signal synchronization mode (AC-SYNC Mode), 9) External AC/DC signal synchronization mode (AC+DC-SYNC Mode).

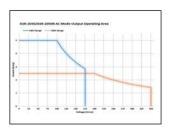
The ASR-2000 series provides users with waveform output capabilities to meet the test requirements of different electronic component development, automotive electrical devices and home appliance, including 1) Sequence mode generates waveform fallings, surges, sags, changes and other abnormal power line conditions; 2) Arbitrary waveform function allows users to store/upload user-defined waveforms; and 3) Simulate mode simulates power outage, voltage rise, voltage fall, and frequency variations. When the ASR-2000 series power source outputs, it can also measure Vrms, Vavg, Vpeak, Irms, Iavg, Ipeak, IpkH, P, S, Q, PF, CF, 40th-order Voltage Harmonic and Current Harmonic. In addition, the Remote sense function ensures accurate voltage output. The Customized Phase Angle for Output On/Off function can set the starting angle and ending angle of the voltage output according to the test requirements. V-Limit, Ipeak-Limit, F-Limit, OVP, OCP, OPP function settings can protect the DUT during the measurement process. In addition to OTP, OCP, and OPP protection, the ASR-2000 series also incorporates the Fan fail alarm function and AC fail alarm function.

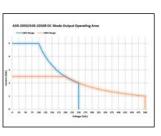
The front panel of the ASR-2050/2100 provides a universal socket or a European socket, which allows users to plug and use so as to save wiring time. The ASR-2050R/2100R is 3U height and 1/2 Rack width design, which is compatible with ATS assembly. The ASR-2000 series supports I/O interface and is equipped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



- 1. Air Inlet
- 2. LCD Screen
- 3. Display Mode Select Key
- 4. Function Keys
- 5. Scroll Wheel
- 6. Output Key
- 7. Hardcopy Key

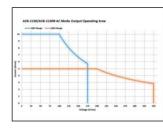
- 8. Lock/Unlock Button
- 9. USB Interface Connector(A Type)
- 10. Power Switch Button
- 11. Output Socket
- 12. External I/O Connector
- 13. Exhaust Fan
- 14. Remote Sensing Input Terminal
- 15. Output Terminal
- 16. Line Input
- 17. External Signal Input/External Synchronized Signal Input
- 18. RS-232C & GPIB Connectors
- 19. LAN Connector
- 20. USB Interface Connector(B Type)

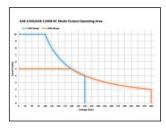




AC Output for ASR-2050/ASR-2050R

DC Output for ASR-2050/ASR-2050R





AC Output for ASR-2100/ASR-2100R

DC Output for ASR-2100/ASR-2100R

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

B. MEASUREMENT ITEMS FOR ASR-2000 SERIES

The ASR-2000 series is an AC+DC power source that provides rated power output not only at the AC output, but also at the DC

output. The operation areas are shown in diagrams.



RMS Meas Display

Harr	Harn	Harn	Harmonic	Voltage Measure	THDv = 42.2 %	Simple
31th	21th	11th	1st	179.9 Vrms	90.7 %	[Harm]
32th	22th	12th	2nd	0.0 Vrms	0.0%	
33th	23th	13th	3rd	59.8 Vrm :	30.2 %	[THDv]
34th	24th	14th	4th	0.0 Vrm :	0.0%	THDI
35th	25th	15th	5th	35.8 Vrm :	18.0 %	
36th	26th	16th	6th	0.0 Vrms	0.0%	
37th	27th	17th	7th	25.5 Vrms	12.9 %	
38th	28th	18th	8th	0.0 Vrms	0.0%	_
39th	29th	19th	9th	19.8 Vrms	10.0%	Page
40th	30th	20th	10th	0.0 Vrms	0.0%	Down



The ASR-2000 series provides users with measurement capabilities including Vrms, Vavg, Vpeak, Irms, Iavg, Ipeak, IpkH, P, S, Q, PF, CF, 40th-order Voltage Harmonic and Current Harmonic. During the power output, the measurement



AVG Meas Display



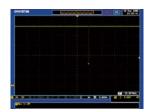
Peak Meas Display

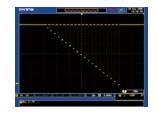
ON	ON	ON	ON 9496	200V SQU		<u> </u>
Harr	Harn	Harn	Harmonic	Current Measure	THDI = 42.2 %	Simple
31th	21th	11th	1st	4.31 Arms	90.7 %	[Harm]
32th	22th	12th	2nd	0.00 Arms	0.0 %	
33th	23th	13th	3rd	1:44 Arms	30.2 %	THDV
34th	24th	14th	4th	0.00 Arms	0.0 %	[THDi]
35th	25th	15th	Sth	0.86 Arm:	18.0 %	
36th	26th	16th	6th	0.00 Arms	0.0 %	
37th	27th	17th	7th	0.61 Arms	12.8 %	
38th	28th	18th	8th	0.00 Arms	0.0 %	
39th	29th	19th	9th	0.47 Arms	9.9 %	Page
40th	30th	20th	10th	0.00 Arms	0.0 %	Down

Current Harmonic

parameters including Vrms/Irms, Vavg/Iavg and Vmax/Vmin/ Imax/Imin can be switched by users at any time to display the instantaneous calculation reading.

SEQUENCE MODE AND APPLICATIONS

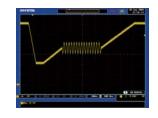




Momentary Drop in Supply Voltage

Reset Behavior at Voltage Drop

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

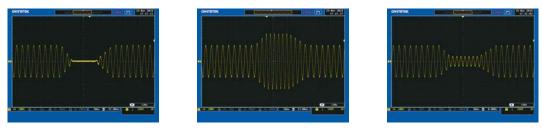


Starting Profile Waveform

Instantaneous Power Failure

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

D. SIMULATE MODE



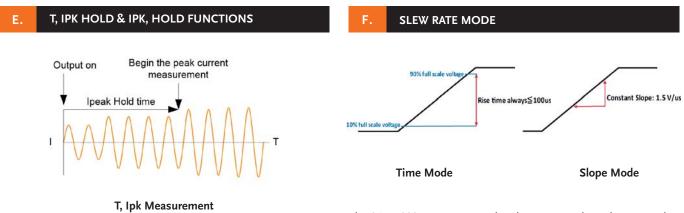
Power Outage

Voltage Rise

Voltage Fall

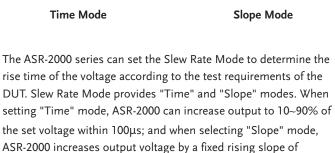
Simulate Mode can quickly simulate different transient waveforms, such as power outage, voltage rise, voltage fall, etc.,

for engineers to evaluate the impact of transient phenomena on the DUT. Ex: Capacitance durability test.



T, Ipk Hold is used to set the delay time after the output (1ms ~ 60,000ms) to capture the Ipeak value and keep the maximum value. The update only functions when the measurement value is greater than the original value. The T, Ipk Hold delay time setting can be used to measure surge current at the power on process of the DUT.

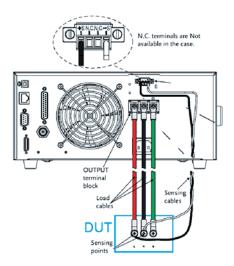
Ipk Hold can be used to measure the transient surge current of the DUT at power on without using an oscilloscope and a current probe.



 $1.5V/\mu s$ until reaching the set voltage value.

In addition, if users decide to self-define the rise time of the output voltage, users can flexibly set the rise time of the ASR-2000 series voltage by editing the Sequence mode.

G. REMOTE SENSE FUNCTION



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

		ASR-2050/ASR-2050R	ASR-2100/ASR-2100R		
INPUT RATING (AC)					
NORMINAL INPUT VOLTAGE		100 Vac to 240 Vac	100 Vac to 240 Vac		
INPUT VOLTAGE RANGE		90 Vac to 264 Vac	90 Vac to 264 Vac		
PHASE		Single phase, Two-wire	Single phase, Two-wire		
INPUT FREQUENCY RANGE		47 Hz to 63 Hz	47 Hz to 63 Hz		
		800 VA or less	1500 VA or less		
POWER FACTOR ^{*1}	100Vac	0.95 (typ.)	0.95 (typ.)		
MAX. INPUT CURRENT	200Vac 100Vac	0.90 (typ.) 8 A	0.90 (typ.) 15 A		
MAA. INPUT CORRENT	200Vac	4 A	7.5 A		
*1. For an output voltage of 100 V/2	00 V (100V/200V range),	maximum current, and a load power factor of 1.			
AC MODE OUTPUT RATINGS	(AC rms)				
VOLTAGE	Setting Range ^{*1}	0.0 V to 175.0 V / 0.0 V to 350.0 V			
Setting Resolution		0.1 V			
Accuracy ^{*2}		±(0.5 % of set + 0.6 V / 1.2 V)			
OUTPUT PHASE		Single phase, Two-wire			
MAXIMUM CURRENT ^{*3}	100 V	5 A	10 A		
	200 V 100 V	2.5 A 20 A	5 A		
MAXIMUM PEAK CURRENT**	200 V	10 A	40 A 20 A		
POWER CAPACITY	200 v	500 VA	1000 VA		
FREQUENCY	Setting Panga				
	Setting Range Setting Resolution	AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz 0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz)			
	Accuracy	For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz: 0.	02% of set		
	Stability ^{*5}	± 0.005%			
OUTPUT ON PHASE		0.0° to 359.9° variable (setting resolution 0.1°)			
DC OFFSET* ⁶		Within ± 20 mV (TYP)			
*1. 100 V / 200 V range					
		ine wave, an output frequency of 45 Hz to 65 Hz, no load, DC voltage s ed by the power capacity when the output voltage is 100 V to 175 V / 20			
 *3. For an output voltage of 1 V to 1 *4. With respect to the capacitor-inp 			U V LU 30U V.		
*5. For 45 Hz to 65 Hz, the rated out	tput voltage, no load and	the resistance load for the maximum current, and the operating tempe	rature.		
*6. In the case of the AC mode and	output voltage setting to	0 V.			
OUTPUT RATING FOR DC MC	DE				
VOLTAGE	Setting Range ^{*1}	-250 V to +250 V / -500 V to +500 V			
	Setting Resolution	0.1 V			
	Accuracy ^{*2}	±(0.5 % of set + 0.6 V / 1.2 V)			
	100.1/	5 A	10 A		
MAXIMUM CURRENT ^{*3}	100 V				
	200 V	2.5 A	5 A		
	200 V 100 V	2.5 A 20 A	5 A 40 A		
	200 V	2.5 A	5 A		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY	200 V 100 V	2.5 A 20 A 10 A	5 A 40 A 20 A		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mat	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C		
MAXIMUM PEAK CURRENT ⁶⁴ POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1}	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V.		
MAXIMUM PEAK CURRENT ⁶⁴ POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY LINE REGULATION ⁶¹ LOAD REGULATION ⁶²	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V.		
MAXIMUM PEAK CURRENT ⁶⁴ POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY LINE REGULATION ⁶¹ LOAD REGULATION ⁷² RIPPLE NOISE ⁶³	200 V 100 V 200 V	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V.		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10	200 V 100 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current.	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) pad, rated output.	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1	200 V 100 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) prode, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components	200 V 100 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) power factor of 1, stepwise change from an output current of 0 A to maximitiput terminal on the rear panel.	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE RECULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFOR	200 V 100 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RAT	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal)		
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MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM	200 V 100 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li imum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO"	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal)		
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MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V /	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li cimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a load 200 V, a load power factor	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more boad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFOR OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li cimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a load 200 V, a load power factor	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) vad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim tiput terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more vad power factor of 1, and in AC and AC+DC mode.	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V /	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li cimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a load 200 V, a load power factor	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more boad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li (imum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO " E TIME " ² 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxii Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) rad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more coad power factor of 1, and in AC and AC+DC mode. ro of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1}	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V, 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO "1 E TIME "2 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy "2	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 1.4 diama and AC+DC mode. or 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the maximum OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxin Resolution Accuracy ^{*2} Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) and, rated output. power factor of 1, stepwise change from an output current of 0 A to maximize the terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *3. For AC mode, at an output voltag	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V, 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO "1 E TIME "2 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy "2	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 1.4 diama and AC+DC mode. or 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1}	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy ^{*2} Resolution Accuracy Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of -250 V t *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For 5AC mode, at an output voltage VOLTAGE RMS, AVG Value ^{*3} PEAK Value	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V, 100 V / 2.8 V to 200 V, Li timum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy ^{*2} Resolution Accuracy	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim atput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading +0.02 A/0.02 A);	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFOR OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*3} PEAK Value	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxin Resolution Accuracy ^{*2} Resolution Accuracy ^{*3}	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% – 90% of output voltage V) For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:± (0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:± (0.7 % of reading + 0.08 A / 0.04 A)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of -250 V t *4. Within 5 ms, Limited by the ma: OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For 5AC mode, at an output voltage VOLTAGE RMS, AVG Value ^{*3} PEAK Value	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li (imum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO TOSTORTION V TOSTORTION RATIO TOSTORTION RATIO TOSTORTION RATIO TOSTORTION RATIO TOSTORTION V TOSTORTION RATIO TOSTORTION RATION TOSTORTION RATION RATION RATIONALLA ANDIALA ANDIALA ANDIALA ANDIALA ANDIALA ANDIALA AND	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) rad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0 ad power factor of 1, and in AC and AC+DC mode. or 0 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORMS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1} PEAK Value PEAK Value	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li (imum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO " E TIME " 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxii Resolution Accuracy" Resolution Accuracy Resolution Accuracy" Resolution Accuracy" Resolution Accuracy"	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0ad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading+0.04 A/0.02 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFOR OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*3} PEAK Value	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V, 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO ^{*1} E TIME ^{*2} 75 V / 100 V to 350 V, a li 200 V, a load power facts ge of 100 V / 200 V, maxii Resolution Accuracy ^{*2} Resolution Accuracy ^{*3} Resolution Accuracy ^{*4} Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading +0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 A) 0.1 A	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan inum current(or its reverse), using the output terminal on the rear pan v) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading+0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.2 % of reading+0.2 A/0.1 0.1 A		
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MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORMS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1} PEAK Value PEAK Value	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO* E TIME* 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maximistry Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution Accuracy* Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin atput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.2 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 (1 VA	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% – 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 5 Hz and DC:±(12 % of reading+0.2 A/0.1 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value POWER Active (W) Apparent (VA)	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO" E TIME ¹² 75 V / 100 V to 350 V, a li 200 V, a load power factor ge of 100 V / 200 V, maxing Resolution Accuracy ¹² Resolution Accuracy ¹³ Resolution Accuracy ¹⁵ Resolution Accuracy ¹⁵ Resolution Accuracy ¹⁵	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 50 do power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2 % of reading]+0.2 A/0.1 A) 0.1 / 1 W ±(2 % of reading + 0.5 W) 0.1 / 1 VA ±(2 % of reading + 0.5 VA)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan num current(or its reverse), using the output terminal on the rear pan the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:± (0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz::± (0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:± (12 % of reading+0.2 A/0.1 0.1 / 1 W ± (2 % of reading + 1 W) 0.1 / 1 VA ± (2 % of reading + 1 VA)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the main OUTPUT VOLTAGE STABILITY LINE RECULATION ^{*1} LOAD REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1} PEAK Value PEAK Value POWER Active (W)	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TS V / 100 V to 350 V, a le 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy ⁷² Resolution Accuracy ⁷³ Resolution Accuracy ⁷⁵ Resolution Accuracy ⁵⁵⁶ Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim tiput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 50 ad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.5 VA) 0.1 A For 45 Hz	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pan num current(or its reverse), using the output terminal on the rear pan where the maximum current (or its reverse); 10% – 90% of output voltage V) For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:± (0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:: ± (0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:± (12 % of reading+0.2 A/0.1 0.1 / 1 W ± (2 % of reading + 1 W) 0.1 / 1 VA ± (2 % of reading + 1 VA) 0.1 / 1 VAR		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai. OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage of 75 V to 1 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*3} PEAK Value CURRENT RMS, AVG Value POWER Active (W) Apparent (VA) Reactive (VAR)	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TS V / 100 V to 350 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Resolution Accuracy Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0ad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 / 1 VA ±(2 % of reading + 0.5 VA) 0.1 / 1 VA ±(2 % of reading + 0.5 VAR)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA ±(2 % of reading + 1 VAR)		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the max OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value POWER Active (W) Apparent (VA)	200 V 100 V 200 V 200 V 0 -25 V, +25 V to +250 V, 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO IDSTORTION RATIO TOSTION RATIO TOSTORTION RATION TOSTORTION RATION RATIONALI TOSTORTION RATI	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) vad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more vad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 / 1 W ±(2 % of reading + 0.5 W) 0.1 / 1 VA ±(2 % of reading + 0.5 VA) 0.1 / 1 VA ±(2 % of reading + 0.5 VA) 0.1 / 1 VA ±(2 % of reading + 0.5 VA) 0.000 to 1.000	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA ±(2 % of reading + 1 VA) 0.1 / 1 VA ±(2 % of reading + 1 VAR) 0.000 to 1.000		
MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the mai. OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage of 75 V to 1 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For AC mode, at an output voltag MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*3} PEAK Value CURRENT RMS, AVG Value POWER Active (W) Apparent (VA) Reactive (VAR)	200 V 100 V 200 V 200 V 0 - 25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, Li dimum current. 0 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TDISTORTION RATIO TS V / 100 V to 350 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Resolution Accuracy Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution	2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0ad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 / 1 VA ±(2 % of reading + 0.5 VA) 0.1 / 1 VA ±(2 % of reading + 0.5 VAR)	5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel num current(or its reverse), using the output terminal on the rear panel the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA ±(2 % of reading + 1 VAR)		

SPECIFICATIONS					
SPECIFICATIONS		ASR-2050/ASR-205	OR	ASR-2100/ASR-2100R	
HARMONIC VOLTAGE EFFECTIVE VALUE (RMS PERCENT (%) (AC-INT and 50/60 Hz only) HARMONIC CURRENT EFFECTIVE VALUE (RMS PERCENT (%) (AC-INT and 50/60 Hz only)	໌ Resolution Accuracy້ Range	Up to 40th order of the fundamental v 175 V / 350 V, 100% 0.1 V, 0.01% Up to 20th \pm (0.2 % of reading + 0.5 V 20th to 40th \pm (0.3 % of reading + 0.5 Up to 40th order of the fundamental v 5 A / 2.5 A, 100% 0.01 A, 0.01% Up to 20th \pm (1 % of reading + 0.1 A / 20th to 40th \pm (1.5 % of reading + 0.1	wave / / 1 V); i V / 1 V) wave / 0.05 A);	Up to 40th order of the fundamental wave 175 V / 350 V, 100% 0.1 V, 0.01% Up to 20th ± (0.2 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V) Up to 40th order of the fundamental wave 10 A / 5 A, 100% 0.01 A, 0.01% Up to 20th ± (1 % of reading + 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading + 0.2 A / 0.1 A);	
 *2. AC mode: For an output *3. An output current in the *4. An output current in the and 23 °C ± 5 °C. The acc *5. For an output voltage of 2 *6. The apparent and reactiv *7. The reactive power is for 	range of 5 % to 100 % of the ma range of 5 % to 100 % of the ma uracy of the peak value is for a v 50 V or greater, an output currer e powers are not displayed in th	to 350 V and 23 $^{\circ}C \pm 5 ^{\circ}C$. DC mode: For an ouximum current, and 23 $^{\circ}C \pm 5 ^{\circ}C$. ximum peak current in AC mode, an output cu vaveform of DC or sine wave t in the range of 10 % to 100 % of the maximu	urrent in the range of 5 % t Im current, DC or an outpu	to 100 % of the maximum instantaneous current in DC mode, ut frequency of 45 Hz to 65 Hz, and 23 °C \pm 5 °C.	
OTHERS					
	nber of Mernories eform Length dard USB	OCP, OTP, OPP, FAN Fail TFT-LCD, 4.3 inch 10 sets for Store and Recall settings 16 (nonvolatile) 4096 words			
Facto	LAN EXT Control ory Optional GPIB RS-232C	SCPI-1993, IEEE 488.2 compliant interface Complies with the EIA-RS-232 specifications			
INSULATION RESISTAN Between input and chassis, out WITHSTAND VOLTAGE	CE put and chassis, input and output	500 Vdc, 30 MΩ or more 1500 Vac, 1 minute			
Between input and chassis, out EMC Safety Environment Ope Stor Ope		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/ EN 55011 (Class A, Group1) EN 61010-1 Indoor use, Overvoltage Category II 0 °C to 40 °C -10 °C to 70 °C 20 %rh to 80 % RH (no condensation 90 % RH or less (no condensation) Up to 2000 m ASR-2000 : 285(W)×124(H)×480(D) (ASR-2000R : 213(W)×124(H)×480(D)	not including protrusio	ons); Approx. 11.5 kg	
			Specif	fications subject to change without notice. ASR-2000GD1B	
ASR-2100 1000VA ASR-2050R 500VA P ASR-2100R 1000VA F ACCESSORIES CD ROM(User Manual, P	Programmable AC/DC Po Programmable AC/DC F rogrammable AC/DC Powe	ower Source Power Source er Source for 3U 1/2 Rack Mount er Source for 3U 1/2 Rack Mount y Guide, Power Cord, over Set, GTL-123 Test Lead,	Opt02 : European Ou GET-003 Extended GET-004 Extended GRA-439-E Rack Mou GRA-439-J Rack Mou	Communication Functions (Factory installed) tput Outlet only for ASR-2000 (Factory installed) Universal Power Socket (ASR-2000R only) European Power Socket (ASR-2000R only) int Kit (EIA) GTL-258 GPIB Cable, approx. 2M, includin	

ACCESSORIES CD ROM(User Manual, Programming manual), Safety Guide, Power Cord, Mains Terminal Cover Set, Remote Sense Terminal Cover Set, GTL-123 Test Lead, GTL-246 USB Cable



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USB Driver

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