

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. Ten 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 superimposition mode (AC+DC-ADD Mode), 7) External AC/DC signal superimposition mode (AC+DC-ADD Mode), 8) External AC signal synchronization mode (AC-SYNC Mode), 9) External AC/DC signal synchronization mode (AC-SYNC Mode), 10) External DC voltage control of AC output mode(AC-VCA).

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, 100th-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, RS-232C, External I/O and optional GPIB.

## **ASR-2000 Series**

## FEATURES

- Output Rating: AC 0 ~ 350 Vrms, DC 0 ~ ± 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,RS-232(std.);GPIB(opt)
- Built-in External Control I/O and External Signal Input
- Built-in Output Relay Control
- Memory Function (up to 10 sets)
- Sequence and Simulation Function (up to 10 sets)
- Support Arbitrary Waveform Function
- Built-in Web Server



Front Panel



**Rear Panel** 

## **APPLICATIONS**

- Electronic Products/Electronic Component Development Test
- Automotive Electrical Equipment
   Simulation Test

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Household Appliance Application Test



# ASR-2000 Series







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

ON	ON	ON	ON 94%	200V SQU		1000
Harr	Harn	Harn	Harmonic	Voltage Measure	THDv = 42.2 %	
31th	21th	11th	1st .	179.9 Vrm s	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 s	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, 100th-order Voltage Harmonic and Current Harmonic. During the power output, the measurement



AVG Meas Display



Peak Meas Display

ON	ON	ON	ON 94% 200V	SQU		and the second
Harr	Harn	Harn	Harmonic Curren	t 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 Arms	18.0 %	-
36th	26th	16th	6th	0.00 Arms	0.0 %	
37th	27th	17th	7th	0.61 Arms	12.8 %	
38th	28th	18th	Sth	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.

ASR-2050/ASR-2050R         ASR-2100/ASR-2100R           NOMINAL INPUT VOLTACE NOMINAL INPUT VOLTACE NOMINAL INPUT VOLTACE PHASE         100 Vac to 240 Vac Single phase, Two-wire         90 Vac to 240 Vac 90 Vac to 240 Vac Single phase, Two-wire         90 Vac to 240 Vac 90 Vac to 250 Vac 250 Vac 250 Vac 90 Vac to 250 Vac 250 Vac 90 Vac to 250 Vac 250
NOMINAL INPUT VOLTACE NOMINAL INPUT VOLTACE NUMPUT VOLTACE PHASE PHA
NPUT VOLTAGE RANCE         90 Vac to 264 Vac         90 Vac to 264 Vac           Single phase, Two-wire         47 Hz to 63 Hz         Single phase, Two-wire           AVX. POWER COSUMMTION         000 Vac or less         1500 Vac or less           90 WER FACTOR <sup>11</sup> 100Vac         0.95 (typ.)         0.95 (typ.)           0.90 (typ.)         0.95 (typ.)         0.95 (typ.)         0.95 (typ.)           AVX. INPUT CURRENT         100Vac         8. A         7. A           *1. for an output voltage of 100 V/200 V (100/200V range], maximum current, and a load power factor of 1.
PHASE         Single phase, Two-wire         Single phase, Two-wire         Single phase, Two-wire           MAX_POVER CONSUMPTION         800 VA or less         1500 VA or less           POWER FACTOR <sup>1</sup> 200Vac         800 VA or less         0.95 (typ.)           0.90 (typ.)         0.90 (typ.)         0.90 (typ.)         0.90 (typ.)           1. for an output voltage of 100 V/200 V (100 V/200 V range), maximum current, and a load power factor of 1.
MAX. POWER CONSUMPTION POWER FACTOR"         100 VAc or less 0.95 (typ.) 0.90 (typ.)         1500 VA or less 0.95 (typ.) 0.90 (typ.)         1500 VA or less 0.95 (typ.)           MAX. INPUT CURRENT         200 Vac 200 Vac         3.4         1.5           At in for an output voltage of 100 V/200 V (100/200 V range), maximum current, and a load power factor of 1.         7.5 A           At CMODE OUTPUT FAINICS (AC rms)         0.1 Vac 150.0 V (0.0 V to 350.0 V 200 Vac 160.5 % of set + 0.6 V / 1.2 V)         10.4           VOLTACE         Setting Reange" Single phase, Two-wire         0.1 V 200 V         10.4           MAXIMUM CURRENT"         100 V         2.5 A         5.4           MAXIMUM PEAK CURRENT"         100 V         2.5 A         2.0 A           YOUTPUT PHASE         Single phase, Two-wire         10.4         2.0 A           MAXIMUM PEAK CURRENT"         200 V         2.5 A         2.0 A           YOUTPUT ON PHASE         O.01 Vac 100 to 99.9 9 H2, O.11 Hz (100.01 to 99.9 9 H2)         100 Vac           COFFERT*         Viting Range         0.01 Vac 100.01 to 99.9 9 H2; O.10 Vac 100.00 Vac         2.0 A           COFFERT*         Viting 9.9 Variable (setting resolution 0.1")         Viting 2.0 Vac         2.0 A           VOLTOUT ON PHASE         CoFFERT*         Viting 2.0 V
POWER FACTOR <sup>®</sup> 100%c         0.95 (typ.)         0.93 (typ.)           MAX. INPUT CURRENT         200%c         3.4         4.5         7.5 A           *1. For an output voltage of 100 //200 V (100V/200V range), maximum current, and a load power factor of 1.         7.5 A         7.5 A           ACMODE OUTPUT RATINCS (AC rms)         0.0 V to 175.0 V / 0.0 V to 350.0 V         7.5 A           VOLTACE         Setting Range <sup>®</sup> 0.0 V to 175.0 V / 0.0 V to 350.0 V           Accuracy <sup>®</sup> 0.0 V to 175.0 V / 0.0 V to 350.0 V         10.4           COUTPUT PHASE         0.0 V to 175.0 V / 0.0 V to 350.0 V         10.4           MAXIMUM CURRENT <sup>®</sup> 100 V         2.5 A         5.4           MAXIMUM PEAK CURRENT <sup>®</sup> 100 V         2.5 A         5.4           OV ZOV         2.00 V         2.0 A         10.0 A           Setting Bange         AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz         1000 V           FREQUENCY         Setting Bange         AC Mode: 40.00 Hz to 999.9 Hz; OUTPUT ON PHASE         1000 V           COTPUT ON PHASE         Stability <sup>®</sup> AC Mode: 40.00 Hz to 999.9 Hz; OU2% of set ± 0.005%         1000 V           Y         10.0 V / 200 V range         *20 MV (TVP)         With reget of 10.0 V / 200 V is 350.9 V araible (setting range)         100 V / 20
And Strike         200% c         0.90 (%p.)         0.90 (%p.)           MAX. INPUT CURRENT         100Vac         8 A         15 A           1. for an output voltage of 100 V/200 V (100V/200V range), maximum current, and a load power factor of 1.         A           AC MODE OUTPUT RATINGS (AC rms)         0.0 V to 175.0 V / 0.0 V to 350.0 V
MAX. INPUT CURRENT       100Vac       8 A       A       15 A       15 A         *1. For an output voltage of 100 V/200 V (100V/200V range), maximum current, and a load power factor of 1.       7.5 A       7.5 A         ACCMODE OUTPUT RATINGS (AC ms)       ••••••••••••••••••••••••••••••••••••
200%c         4 A         7.5 A           *1, For an output voltage of 100 V/200 V (100V/200V range). maximum current, and a load power factor of 1.
*1. For an output voltage of 100 V/200 V (100V/200V range), maximum current, and a load power factor of 1.          ACE MODE OUTPUT RATINES [AC rms]       0.0 V to 175.0 V / 0.0 V to 350.0 V         VOLTACE       Setting Range"       0.0 V to 175.0 V / 0.0 V to 350.0 V         Accuracy"       10.0 V       5.4         200 V       20.0 V       5.4         200 V       20.0 V       20.0 V         200 V       20.0 V       20.0 V         200 V       20.0 V       20.0 V         POWER CAPACITY       100 V       20.0 V         RREQUENCY       Setting Range       0.0 THz (1.00 to 99.9 PHz), 0.1 Hz (100.0 to 99.9.9 Hz)         OUTPUT ON PHASE       0.0 THz (1.00 to 99.9 PHz), 0.1 Hz (100.0 to 99.9.9 Hz)       0.0 THz (1.00 to 99.9.9 Hz)         OUTPUT ON PHASE       0.0 To 330.9 V variable (setting resolution 0.1°)       Within ± 20 mV (TYP)         *1.100 V / 200 V range       2.5 K to 350 V, sine wave, an output of 65 Hz; no load, DC voltage setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 17.5 V to 175 V / 35 V to 350 V, sine wave, an output voltage is 100 V to 175 V / 200 V to 350 V.         *4. With sepacitor input restifying load. Limited by the maximum current.         *5. For 45 Hz to 55 Hz; the rated output voltage. setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 17.5 V to 175 V / 35 V to 350 V, sine wave, and the output voltage is 100 V to 175 V / 200 V
AC MODE OUTPUT RATINGS (AC rms) VOLTACE Setting Range <sup>1</sup> (0.0 V to 175.0 V / 0.0 V to 350.0 V (0.1 V (0.5 % of set + 0.6 V / 1.2 V) (0.0 V to 350.0 V (0.1 V (0.5 % of set + 0.6 V / 1.2 V) (0.0 V to 350.0 V (0.1 V (0.0 V (0.0 V to 350.0 V (0.0 V (0.0 V to 350.0 V (0.0 V
VOLTACE     Setting Range" Setting Resolution Accuracy"     0.0 V to 173.0 V / 0.0 V to 350.0 V       OUTPUT PHASE     0.0 V to 173.0 V / 0.0 V to 350.0 V       MAXIMUM CURRENT"     100 V       200 V     2.5 A       200 V     2.5 A       200 V     2.0 A
Setting Resolution Accuracy <sup>2</sup> 0.1 V         5.6           MAXIMUM CURRENT <sup>2</sup> 100 V         5.A           200 V         2.5 A         5.A           MAXIMUM PEAK CURRENT <sup>2</sup> 100 V         2.5 A           200 V         2.0 A         40.A           200 V         20.0 V         20.0 A           200 V         20.0 A         40.A           200 V         20.0 A         20.0 A           200 V         20.0 A         20.0 A           200 V         20.0 A         20.0 A           Setting Range         Soti VA         2.0 A           500 VA         100.0 Va         20.0 A           200 V         300 Variable (setting resolution 0.1")         0.01 Hz (1.00 to 99.9 9.1 Hz). 0.02% of set           5 cor 45 Hz to 55 Hz: 0.01% of set, For 40 Hz to 99.9. Hz: 0.02% of set         ± 0.005%           0.01 V2 / 200 V range         2.0 A         0.01 Hz (1.00 to 99.9 9.1 Hz). 0.02% of set           2. For an output voltage of 17 Vs 107 V / 35 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           3. For an output voltage of 17 Vs 100 V / 2 V 200 V (untet by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350. V         -           4. With respect output coltage setting to 0         -2
Accuracy         ±(0.5 % of set + 0.6 V / 1.2 V)           Single phase, Two-wire         Single phase, Two-wire           MAXIMUM CURRENT"         100 V         2.5 A         5 A           MAXIMUM PEAK CURRENT"         100 V         2.0 A         40 A           200 V         10 A         20 A         40 A           200 V         10 A         20 A         40 A           200 V         10 A         20 A         1000 VA           FREQUENCY         Setting Resolution         ACCuracy         500 VA         1000 VA           Stability"         AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz         1000 VA           OUTPUT ON PHASE         5 a         0.01 Hz (1.00 to 99.9 9Hz), 0.1 Hz (100.0 to 999.9 Hz)         For 45 Hz to 55 Hz: 0.0156 of set, For 40 Hz to 999.9 Hz         0.02% of set           41 100 / 200 Vrange         ± 0.005%         0.0° to 359.9° variable (setting resolution 0.1°)         Within ± 20 mV (TYP)           92 For an output voltage of 17.5 V to 175 V / 35 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         3.6° an output voltage of 17.5 V to 175 V / 35 V to 350 V to 350 V to 4500 V o           3.6 For an output voltage of 17.5 V to 175 V / 35 V to 350 V to 350 V to 4250 V / -500 V to 150 V to 175 V / 200 V to 350 V         0.1 V           4.100 V rage <t< th=""></t<>
Single phase, Two-wire         MAXIMUM CURRENT"       100 V       5 A       10 A         200 V       2.5 A       5 A         MAXIMUM PEAK CURRENT"       100 V       2.0 A       40 A         200 V       20 A       40 A         200 V       10 A       20 A         POWER CAPACITY       500 VA       100 I Hz (1.00 to 99.9.9 Hz, AC+DC Mode: 1.00 Hz to 99.9.9 Hz         FREQUENCY       Setting Range       AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz         Sol VA       100 I Hz (1.00 to 99.99 Hz), I Hz (100.0 to 99.9.9 Hz)       For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz       Sol VA         OUTPUT ON PHASE       0.0° to 339.9° variable (setting resolution 0.1°)       Within ± 20 mV (TYP)         *1.100 V/ 200 V range       -       -       -       -         2: for an output voltage of 1 Vto 100 V (2 V to 200 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       -         3: for an output voltage of 1 Vto 100 V (2 V to 200 V, sine wave, an output voltage is 100 V to 157 V / 200 V to 350.V       -       -         4: With respect on the AC mode and output voltage, no load and the resistance load for the maximum current, and the operating temperature.       -       -         5: In the case of the AC mode and output voltage, of oset != 0.6 V / 1.2 V)       -
MAXIMUM CURRENT"       100 V       20 V       5 A       10 A         200 V       2.5 A       5 A       5 A         MAXIMUM PEAK CURRENT"       100 V       20 A       40 A         200 V       10 A       20 A       40 A         POWER CAPACITY       500 VA       100 V       20 A         FREQUENCY       Setting Range       AC Mode: 40.00 Hz to 99.9 Hz, AC+DC Mode: 1.00 Hz to 99.9 Hz       1000 VA         COUTPUT ON PHASE       Stability"       ± 0.05%       0.01 Hz (1.00 to 99.9 Hz), 0.1 Hz (100.0 to 99.9 Hz)       0.02% of set         ± 0.005%       0.0° to 359.9° variable (setting resolution 0.1°)       Core 575°       Vol Yo 100 V / 210 V0 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         *3. For an output voltage of 17.5 V to 175 V / 35 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         *3. For an output voltage of 17.5 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V.         *4. With respect to the capacitor-input rectifying load. Limited by the power capacity of the maximum current, and the operating temperature.         *5. For 45 Hz to 15 Hz, the rate no load and the resistance load for the maximum current.       -250 V to +250 V / -500 V to +500 V         VOLTAGE       Setting Range <sup>0</sup> 25A
200 V         2.5 A         5 A           MAXIMUM PEAK CURRENT"         100 V         20 A         40 A           200 V         10 A         20 A         40 A           POWER CAPACITY         500 VA         1000 VA           FREQUENCY         Setting Range         AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz         1000 VA           FREQUENCY         Setting Resolution Accuracy         AC Mode: 40.00 Hz to 999.9 Hz, 0.1 Hz (100.0 to 999.9 Hz).         For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz         0.02% of set           2.0 CorrESET*         0.05%         0.01 Hz (1.00 to 99.99 Hz).         0.07 to 335.9 ° variable (setting resolution 0.1°)         Vithin ± 20 mV (TYP)           *1.100 V / 200 V range         2.0 A         0.01 Hz (1.00 to 99.99 Hz).         0.02% of set         5.07 C           *2.For an output voltage of 17.5 V to 175 V / 35 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         4.0 Hz to 950 Hz to 106 V / 2 V to 200 V. Limited by the power capacity when the output voltage is 100 V to 155 V / 200 V to 350 V.         4.0 Hz to 951 Hz to 65 Hz, to 155 V / 35 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           *3. For an output voltage of 17.5 V to 100 V / 2 V to 200 V. Limited by the maximum current.         *6.0 Hz to 999.9 Hz         *7.0 NZ           VOLTACE <t< th=""></t<>
AC Model V Exc Context v     200 V     10 A     20 A       POWER CAPACITY     Setting Range     500 V/A     1000 V/A       FREQUENCY     Setting Range     AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz     000 V/A       OUTPUT ON PHASE     0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz)     0.02% of set       DC OFFSET*     0.005%     0.01 Hz (1.00 to 99.9 Hz), 0.1 Hz (100.0 to 999.9 Hz)     0.02% of set       *2. For an output voltage of 17.5 V to 175 V / 35 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       *3. For an output voltage of 17.5 V to 175 V / 35 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       *3. For an output voltage of 17.5 V to 175 V / 15 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V.       *4. With respect to the capacitor-input retifying load. Limited by the maximum current,       *5. For a output voltage of 17.5 V to 175 V / 50 V to 200 V (1mited by the maximum current, and the operating temperature.       *6. In the case of the AC mode and output voltage setting to 0V       OUTPUT TATING FOR DC MODE       VOLTAGE     Setting Range"       Sol V     20 A       20 A     10 A       20 O V     20 A       20 O V     20 A       00 V     20 A       00 V     20 A <tr< th=""></tr<>
POWER CAPACITY         Solution         500 VA         1000 VA           FREQUENCY         Setting Range Setting Resolution Accuracy Stability <sup>3</sup> 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 99.9.9 Hz), 0.1 Hz (100.0 to 999.9 Hz)         0.00 VA           OUTPUT ON PHASE DC OFFSET*         Solo VA         AC Mode: 40.00 Hz to 999.9 Hz, 0.01 Hz (100.0 to 999.9 Hz)         0.02% of set ± 0.005%           100 V / 200 V range         Solo VA         Vithin ± 20 mV (TYP)         Vithin ± 20 mV (TYP)           *1.100 V / 200 V range         Vithin ± 20 mV (TYP)         Vithin ± 20 mV (TYP)         Vithin ± 20 mV (TYP)           *1.100 V / 200 V range         Solo VA         Solo VA         Solo VA           *2. For an output voltage of 17.5 V to 175 V / 35 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         Solo VA           *3. For an output voltage of 17.5 V to 100 V / 2V to 200 V Lo 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         Solo VA           *5. For 45 Hz to 65 Hz, the rated output voltage setting to 0V.         Solo V to 150 V / 200 V to 350 V         Solo V to 150 V / 200 V to 350 V           OUTPUT RATING FOR DC MODE         VOLTAGE         Setting Range <sup>1</sup> Setting Range <sup>1</sup> Setting Range <sup>1</sup> Setting Range <sup>1</sup> Setting Range <sup>1</sup> Solo V         Solo V + 250 V / -500 V to +500 V         Solo V           MAXIMUM P
FREQUENCY       Setting Range Setting Resolution Accuracy       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 999.9 Hz)         OUTPUT ON PHASE DC OFFSET <sup>6</sup> AC Mode: 40.00 Hz to 999.9 Hz, O.1 Hz (100.0 to 999.9 Hz)       0.02% of set         *1.100 V / 200 V range       *0.00 V / 200 V range       *0.00 V / 200 V range       *0.00 V / 200 V ration of the maximum current.         *5. For a output voltage of 17.5 V to 175 V / 35 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         *5. For a output voltage of 17.5 V to 175 V / 35 V to 350 V, the maximum current.       *0.01 Hz ration of the maximum current.         *5. For 45 Hz to 65 Hz; no load, DC voltage setting 0V (AC+DC mode) and 23°C ± 5°C         *6. In the case of the AC mode and output voltage, no load and the resistance load for the maximum current, and the operating temperature.         *6. In the case of the AC mode and output voltage setting to 0 V         OUTPUT RATING FOR DC MODE         VOLTACE       Setting Range <sup>*</sup> Setting Resolution Accuracy <sup>2</sup> *100 V       200 V         *2.5 A       5 A         *2.0 V       5 A         *100 V / 200 V range         *2.5 For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V, to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V, to +500 V, no load, A
Setting Resolution Accuracy Stability"       0.01 Hz (1.00 to 99.9 Hz), 0.1 Hz (100.0 to 99.9 Hz)         OUTPUT ON PHASE DC OFFSET"       0.005%         0.01 V / 200 V range       0.01 Tz (1.00 to 99.9 Hz), 0.1 Hz (100.0 to 999.9 Hz)         2. For an output voltage of 17.5 V to 175 V / 35 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         3. For an output voltage of 17.5 V to 175 V / 35 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         *5. For 45 Hz to 65 Hz, the rade output voltage, no load and the resistance load for the maximum current, and the operating temperature.         *6. In the case of the AC mode and output voltage setting to 0 V.         OUTPUT RATING FOR DC MODE         VOLTAGE       Setting Resolution Accuracy"         *2.00 V       2.5 A         200 V       2.0 A      <
Accuracy Stability"       For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz: 0.02% of set ± 0.005% 0.0° to 359.9° variable (setting resolution 0.1°) Within ± 20 mV (TYP)         *1.100 V/ 200 V range *2. For an output voltage of 17.5 V to 175 V / 35 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 *3. For an output voltage of 17.5 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 *4. With respect to the capacitor-input rectifying load. Limited by the maximum current. *5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature. *6. In the case of the AC mode and output voltage setting 0V to 175 V / 200 V to 350 V.         OUTPUT RATINC FOR DC /// OUTPUT RATINC FOR DC /// Setting Resolution Accuracy"       250 V to +250 V / -500 V to +500 V 0.1 V = (10.5 % of set] + 0.6 V / 1.2 V)         MAXIMUM CURRENT"       100 V 200 V       2.5 A       5 A         MAXIMUM PEAK CURRENT"       100 V 200 V       20 A       10 A         200 V       2.5 A       20 A       20 A         00 V       20 A       20 A       20 A       20 A         00 V       20 A       20 A       20 A       20 A       20 A         00 V       20 A         00 V       20 A       20 A       20 A       20 A
Stability <sup>15</sup> ± 0.005% 0.0° to 359.9° variable (setting resolution 0.1°) Within ± 20 mV (TYP)         11.100 V / 200 V range *2. For an output voltage of 17.5 V to 175 V / 35 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 *3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V. *4. With respect to the capacitor-input rectifying load. Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V. *4. With respect to the capacity output voltage, no load and the resistance load for the maximum current. *5. For 45 Hz to 65 Hz, the rated output voltage setting to 0 V         OUTPUT RATING FOR DC MODE VOUTPUT RATING FOR DC MODE VOUTAGE       Setting Range <sup>1</sup> Setting Resolution Accuracy <sup>2</sup> -250 V to +250 V / -500 V to +500 V 0.1 V ±([0.5 % of set] + 0.6 V / 1.2 V)         MAXIMUM CURRENT <sup>3</sup> 100 V 200 V       2.5 A       10 A 2.5 A         200 V       2.0 A       40 A 200 V       20 A 100 A         200 V       200 V       200 A       20 A 500 W       40 A 20 A         POWER CAPACITY       100 V / 2.8 V to 250 V to -550 V to -550 V, to 550 V, to
OUTPUT ON PHASE DC OFFSET*       0.0° to 359.9° variable (setting resolution 0.1°) Within ± 20 mV (TYP)         *1.100 / 200 V range       *2. For an output voltage of 17.5 V to 175 V / 35 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         *3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V.         *4. With respect to the capacitor-input rectifying load. Limited by the maximum current.         *5. For 45 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature.         *6. In the case of the AC mode and output voltage setting to 0 V.         OUTPUT RATING FOR DC MODE         VOLTAGE       Setting Range*         *2.5 Ø v 61 set] + 0.6 V / 1.2 V)         MAXIMUM CURRENT**       100 V         *200 V       2.5 A         *200 V       2.0 A         *100 V / 200 V range         *1.100 V / 200 V range         *2. For an output voltage of -25 V to -25 V, +25 V to +250 V / -500 V to +500 V, no load, AC volatge setting 0V (AC+
DC OFFSET*       Within ± 20 mV (TYP)         *1. 100 V / 200 V range       *2. For an output voltage of 17.5 V to 175 V / 35 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         *3. For an output voltage of 17.5 V to 175 V / 35 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         *3. For an output voltage of 17.5 V to 175 V / 35 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         *4. With respect to the capacitor-input rectifying load. Limited by the maximum current.         *5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature.         *6. In the case of the AC mode and output voltage setting to 0 V.         OUTPUT RATINC FOR DC MODE         VOLTAGE       Setting Resolution Accuracy <sup>2</sup> Setting Resolution Accuracy <sup>2</sup> -250 V to +250 V / -500 V to +500 V         0.1 V       ±([0.5 % of set] + 0.6 V / 1.2 V)         MAXIMUM PEAK CURRENT <sup>44</sup> 100 V         200 V       2.5 A         200 V       2.0 A         200 V       2.0 A         200 V       2.0 A         200 V       20 A         200 V       20 A         200 V       20 A         200 V
*1. 100 V / 200 V range *2. For an output voltage of 17.5 V to 175 V / 35 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 *3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V. *4. With respect to the capacitor-input rectifying load. Limited by the maximum current. *5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature. *6. In the case of the AC mode and output voltage setting to 0 V. <b>OUTPUT RATING FOR DC MODE</b> <b>VOLTAGE</b> Setting Resolution Accuracy <sup>*2</sup> $ \begin{array}{c} -250 V to +250 V / -500 V to +500 V \\ 0.1 V \\ \pm ( 0.5 \% of set  + 0.6 V / 1.2 V) \\ 5 A \\ 200 V \\ 200 V \\ 10A \\ 500 W \\ *1. 100 V / 200 V range *1. 100 V / 220 V to -25 V, +25 V to +250 V / -500 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C  *3. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C  *3. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C  *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, ismited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.  *4. Within 5 ms, Limited by the maximum current.$
*2. For an output voltage of 17.5 V to 175 V / 35 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 *3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V. *4. With respect to the capacitor-input rectifying load. Limited by the maximum current. *5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature. *6. In the case of the AC mode and output voltage setting to 0 V. <b>OUTPUT RATING FOR DC MODE</b> VOLTAGE Setting Resolution Accuracy <sup>2</sup> 10 0 V 20 0 V 2.5 A 20 0 V 2.5 A MAXIMUM PEAK CURRENT <sup>*4</sup> 100 V 200 V 10 A 200 V 10 A 200 V 10 A 200 V 10 A 200 V 10 A 200 V 10 A 20 A 10 A 20
*3. For an output voltage of 1 V to 100 V / 2 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 175 V / 200 V to 350 V. *4. With respect to the capacitor-input rectifying load. Limited by the maximum current. *5. For 45 It to 65 Hz, the rated output voltage setting to 0 V. <b>OUTPUT RATING FOR DC MODE</b> VOLTAGE Setting Resolution Accuracy <sup>*2</sup> -250 V to +250 V / -500 V to +500 V 0.1 V ±([0.5 % of set] + 0.6 V / 1.2 V) MAXIMUM CURRENT <sup>*3</sup> 100 V 5 A 20 A 10 A 20 A 20 A 20 V 2.5 V to +500 V to +500 V, to 100 V / 2.8 V to 250 V / -500 V to +500 V, to load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.
*5. For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current, and the operating temperature. *6. In the case of the AC mode and output voltage setting to 0 V. OUTPUT RATING FOR DC MODE VOLTAGE Setting Range <sup>*1</sup> Setting Resolution Accuracy <sup>*2</sup> (0.1 V (0.1
*6. In the case of the AC mode and output voltage setting to 0 V. OUTPUT RATING FOR DC MODE VOLTAGE Setting Resolution Accuracy <sup>12</sup> 100 V 5 A 200 V 2.5 A 20 A 10 A 200 V 10 V 2.5 A 20 A 40 A 20 A 10 A 20 A 20 A 20 V 10 A 20 V 10 A 20 V 10 A 20 V 10 A 20 A 2
OUTPUT RATING FOR DC MODE         Setting Range <sup>51</sup> Setting Resolution Accuracy <sup>52</sup> -250 V to +250 V / -500 V to +500 V 0.1 V ±([0.5 % of set] + 0.6 V / 1.2 V)           MAXIMUM CURRENT <sup>41</sup> 100 V 200 V         5 A 200 V         10 A 2.5 A         10 A 2.5 A           MAXIMUM PEAK CURRENT <sup>44</sup> 100 V 200 V         2.5 A         5 A           POWER CAPACITY         100 A 200 V         20 A         100 A           *1. 100 V / 200 V range *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volateg setting 0V (AC+DC mode) and 23°C ± 5°C *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.           *4. Within 5 ms, Limited by the maximum current.         *4
VOLTAGE         Setting Range <sup>51</sup> Setting Resolution Accuracy <sup>52</sup> -250 V to +250 V / -500 V to +500 V 0.1 V ±([0.5 % of set] + 0.6 V / 1.2 V)           MAXIMUM CURRENT <sup>53</sup> 100 V 200 V         5 A 2.5 A         10 A 5 A           MAXIMUM PEAK CURRENT <sup>64</sup> 100 V 200 V         2.5 A         5 A           MAXIMUM PEAK CURRENT <sup>64</sup> 100 V 200 V         2.5 A         5 A           MAXIMUM PEAK CURRENT <sup>64</sup> 100 V 200 V         20 A         40 A           POWER CAPACITY         100 A 500 W         20 A         1000 W           *1.100 V / 200 V range *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volateg setting 0V (AC+DC mode) and 23°C ± 5°C *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.         *4. Within 5 ms, Limited by the maximum current.
Setting Resolution Accuracy <sup>2</sup> 0.1 V ±([0.5 % of set] + 0.6 V / 1.2 V)           MAXIMUM CURRENT <sup>43</sup> 100 V 200 V         5 A 2.5 A         10 A 5 A           MAXIMUM PEAK CURRENT <sup>44</sup> 100 V 200 V         2.5 A         5 A           MAXIMUM PEAK CURRENT <sup>44</sup> 100 V 200 V         2.0 A         40 A           POWER CAPACITY         10 A         20 A         1000 W           *1.100 V / 200 V range *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volateg setting 0V (AC+DC mode) and 23°C ± 5°C *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.           *4. Within 5 ms, Limited by the maximum current.
Accuracy <sup>2</sup> ±( 0.5 % of set  + 0.6 V / 1.2 V)         MAXIMUM CURRENT <sup>43</sup> 100 V       5 A       10 A         200 V       2.5 A       5 A         MAXIMUM PEAK CURRENT <sup>4</sup> 100 V       20 A       40 A         200 V       10 A       20 A       40 A         200 V       10 A       20 A       40 A         200 V       10 A       20 A       100 W         POWER CAPACITY       500 W       100 A       20 A         *1. 100 V / 200 V range       500 W       100 - 500 V, to -50 V, to
200 V       2.5 A       5 A         MAXIMUM PEAK CURRENT**       100 V       20 A       40 A         200 V       10 A       20 A       100 W         POWER CAPACITY       500 W       100 M       1000 W         *1. 100 V / 200 V range       520 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.         *4. Within 5 ms, Limited by the maximum current.
200 V       2.5 A       5 A         MAXIMUM PEAK CURRENT**       100 V       20 A       40 A         200 V       10 A       20 A         200 V       10 A       20 A         500 W       100 M       100 W         *1. 100 V / 200 V range       500 W       1000 W         *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V, to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.         *4. Within 5 ms, Limited by the maximum current.
200 V       10 A       20 A         POWER CAPACITY       10 A       20 A         1, 100 V / 200 V range       *1. 100 V / 200 V range       *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.         *4. Within 5 ms, Limited by the maximum current.
POWER CAPACITY       500 W       1000 W         *1.100 V / 200 V range       *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C         *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.         *4. Within 5 ms, Limited by the maximum current.
*1. 100 V / 200 V range *2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C *3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V. *4. Within 5 ms, Limited by the maximum current.
<ul> <li>*2. For an output voltage of -250 V to -25 V, +25 V to +250 V / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+DC mode) and 23°C ± 5°C</li> <li>*3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V.</li> <li>*4. Within 5 ms, Limited by the maximum current.</li> </ul>
*3. For an output voltage of 1.4 V to 100 V / 2.8 V to 200 V, Limited by the power capacity when the output voltage is 100 V to 250 V / 200 V to 500 V. *4. Within 5 ms, Limited by the maximum current.
OUTPUT VOLTAGE STABILITY
LINE REGULATION <sup>®</sup> ±0.2% or less
RIPPLE NOISE <sup>*3</sup> 0.7 Vrms / 1.4 Vrms (TYP)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pa
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pa *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pare. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60$ Hz, $\leq 0.3\% @ <500$ Hz, $\leq 0.5\% @ 500.1$ Hz~999.9Hz
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY TOTAL HARMONIC DISTORTION(THD)*1 $\leq 0.2\% @ 50/60$ Hz, $\leq 0.3\% @ <500$ Hz, $\leq 0.5\% @ 500.1$ Hz~999.9Hz 100 µs (TYP)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>*2</sup> EFFICIENCY <sup>*3</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz~999.9Hz$ $100 \ \mu s (TYP)$ 70 % or more
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>*1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>*2</sup> <b>EFFICIENCY</b> <sup>*3</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz~999.9Hz$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 from an output current of 0 A to the maximum current (or its reverse); 10% – 90% of output voltage of 500 V to 175 V / 100 V to 350 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 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 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 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 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (o
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVC Value</b> <sup>3</sup> <b>Resolution</b> <b>0.1</b> V
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>11</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <sup>17</sup> <b>Resolution</b> <b>Accuracy</b> <sup>12</sup> <b>0.</b> 1 V For 45 Hz to 65 Hz and DC: $\pm (0.5\% \text{ of reading } + 0.3 V/0.6 V)$ For 40 Hz to 999.9 Hz: $\pm (0.7\% \text{ of reading } + 0.9 V/1.8$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>11</sup> $\leq 0.2\% @50/60Hz, \leq 0.3\% @<500Hz, \leq 0.5\% @500.1Hz~999.9Hz$ <b>DUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>3</sup> $\leq 0.2\% @50/60Hz, \leq 0.3\% @<500Hz, \leq 0.5\% @500.1Hz~999.9Hz$ <b>100</b> µs (TYP) <b>70% or more</b> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <sup>1</sup> <b>Resolution</b> <b>Accuracy</b> <sup>2</sup> <b>PEAK Value Resolution</b> <b>Accuracy</b> <b>OUTPUT VOLTAGE RMS, AVG Value</b> <sup>1</sup> <b>Resolution</b> <b>Accuracy</b> <b>OUTPUT VOLTAGE RMS, AVG Value</b> <sup>1</sup> <b>Resolution</b> <b>Accuracy</b> <sup>2</sup> <b>PEAK Value Resolution</b> <b>Accuracy</b> <b>OUTPUT VOLTAGE RMS, AVG Value</b> <sup>1</sup> <b>Resolution</b> <b>Accuracy</b> <b>OUTPUT VOLTAGE RMS, AVG Value</b> <sup>1</sup> <b>Resolution</b> <b>Accuracy</b> <sup>2</sup> <b>PEAK Value Resolution</b> <b>Accuracy</b> <b>Accuracy</b> <b>OUTPUT RESOLUTION</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accuracy</b> <b>Resolution</b> <b>Accur</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>*1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>*2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <sup>*1</sup> <b>Resolution</b> <b>OUTPUT</b> <b>PEAK Value</b> <b>Resolution</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUTPUT</b> <b>OUTPUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b> <b>OUT</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>*2</sup> EFFICIENCY <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accuracy</b> <b>Accurac</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>*2</sup> EFFICIENCY <sup>*3</sup> $\leq 0.2\% (0.5)(60Hz, \leq 0.3\% (0.500Hz, \leq 0.5\% (0.5$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         OUTPUT VOLTAGE RESPONSE TIME?         OUTPUT VOLTAGE RESPONSE TIME?         OUTPUT VOLTAGE RESPONSE TIME?         PERK Value         Resolution         Accuracy'*         PEAK Value         Resolution         Accuracy'*         PEAK Value         Resolution         Accuracy'*
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> QUITPUT VOLTAGE RESPONSE TIME <sup>*2</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 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 3. For AC mode, at 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 3. For AC mode, at 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 volta 4. For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         FOR COMMENT       Resolution Accuracy <sup>*2</sup> PEAK Value       Resolution Accuracy <sup>*3</sup> PEAK Value       Resolution Accuracy <sup>*4</sup> Accuracy <sup>*3</sup>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME;         FILE 10 MHz components in DC mode using the output terminal on the rear panel.         OUTPUT VOLTAGE RESPONSE TIME;         EFFICIENCY**         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RNS, AVG Value         Resolution Accuracy**         PEAK Value       Resolution Accuracy**         PEAK Value       Resolution Accuracy**         POWER Active (W)       Resolution Accuracy**         POWER Active (W)       Resolution Accuracy**         POWER Active (W)       Resolution Accuracy**         QUITA       QUITA         POWER Active (W)       Resolution Accuracy**         QUITA       QUITA         QUITA       Resolution Accuracy**         QUITA       QUITA         QUITA       Resolution Accuracy**         QUITA
<ul> <li>Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.</li> <li>Prover source input voltage of 75 V to 175 V/150V to 350V, 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 parel.</li> <li>OUTPUT VOLTACE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</li> <li>OUTPUT VOLTACE RESPONSE TIME<sup>2</sup></li> <li>Co.2% @ 50/60Hz, ≤ 0.3% @ &lt;500Hz, ≤ 0.5% @ 500.1Hz~999.9Hz</li> <li>00 µs (TYP)</li> <li>70 % or more</li> <li>At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.</li> <li>For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.</li> <li>For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.</li> <li>At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.</li> <li>A tan 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.</li> <li>MEASURED VALUE DISPLAY</li> <li>VOLTAGE RMS, AVG Value Resolution Accuracy<sup>2</sup></li> <li>PEAK Value Resolution Accuracy<sup>2</sup></li> <li>POWER Active (W) Resolution Accuracy<sup>2</sup></li> <li>Apparent (VA) Resolution Accuracy<sup>2</sup></li> <li>Apparent (VA)</li></ul>
***       Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         **2. For an output voltage of 75 V to 75V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION[THD]" $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz-999.9Hz$ OUTPUT VOLTAGE RESPONSE TIME" $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz-999.9Hz$ OUTPUT voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. $\geq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz-999.9Hz$ 2. 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 3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY       VOLTAGE RMS, AVG Value       Resolution Accuracy         VOLTAGE RMS, AVG Value       Resolution Accuracy       0.1 V         For 45 Hz to 65 Hz and DC: $\pm (12 \% of reading + 0.3 V/0.6 V)$ For 40 Hz to 999.9 Hz: $\pm (0.7 \% of reading + 0.9 V/1.8 0.1 A)$ For 45 Hz to 65 Hz and DC: $\pm (12 \% of reading + 0.2 A/0.0 Z)$ For 45 Hz to 65 Hz and DC: $\pm (12 \% of reading + 0.0 Z A/0.0 Z)$ For 45 Hz to 65 Hz and DC: $\pm (12 \% of reading + 0.0 Z A/0.0 Z)$ For 45 Hz to 65 Hz and DC: $\pm (12 \% of reading + 0.0$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175 V/150V to 350V, 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.         OUTPUT VOLTACE WAVEFORM DISTORTION RATIO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD)"         OUTPUT VOLTACE RESPONSE TIME*         EFFICIENCY"         *1. At an output voltage of 50 V to 175 V / 100 V to 350 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 of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MESSURED VALUE DISPLAY       VOLTAGE RMS, AVC Value         PEAK Value       Resolution Accuracy"         PEAK Value       Resolution Accuracy"         PEAK Value       Resolution Accuracy"         POWER       Active (W)       Resolution Accuracy"         Apparent (VA)       Resolution Accuracy"         Apparent (VA)       Resolution Accuracy"       0.1 / 1 V         4(2 % of reading + 0.5 W)       0.1 / 1 VA         4(2 %
*1. Power source input voltage is 100 V, 120 V, or 230 V, no laad, rated output.         *2. Power source input voltage of 75 V to 175V/150V to 350V, 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 paral 3. For 5H zto 1 MHz components in DC mode using the output terminal on the rear paral 2.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         OUTPUT VOLTAGE RESPONSE TIME?         EFFICIENCY?         *1. At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, aload power factor of 1, and in expression of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy?         PEAK Value       Resolution Accuracy?         POWER       Resolution Accuracy?         Active (W)       Resolution Accuracy?         Accuracy?       0.1 / V         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         NO1 A       For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         22. For an output voltage of 75 V to 175V/150V to 350V, 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 part of 3, For 5H to 1 MHz components in DC mode using the output terminal on the rear part of 0 A to maximum current for 15 V to 175V/150V to 350V, a load power factor of 1, and in AC and AC+DC mode.         20.00000000000000000000000000000000000
*1. Power source input voltage is 100 V, 120 V, or 230 V, no laad, rated output.         *2. Power source input voltage of 75 V to 175V/150V to 350V, 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 paral 3. For 5H zto 1 MHz components in DC mode using the output terminal on the rear paral 2.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         OUTPUT VOLTAGE RESPONSE TIME?         EFFICIENCY?         *1. At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, aload power factor of 1, and in expression of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy?         PEAK Value       Resolution Accuracy?         POWER       Resolution Accuracy?         Active (W)       Resolution Accuracy?         Accuracy?       0.1 / V         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         NO1 A       For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.2 A/0.02 A)         For 45 Hz to 65 Hz and DC:±
INE REGULATION <sup>®1</sup> ±0.2% or less         .OAD REGULATION <sup>®2</sup> ±0.15%@45-65Hz; ±0.5%@DC, all other frequencies (0 to 100%, via output terminal)
RIPPLE NOISE ' 0.7 Vrms / 1.4 Vrms (TYP)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pa
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pa *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 pa *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel.
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*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60$ Hz, $\leq 0.3\% @ <500$ Hz, $\leq 0.5\% @ 500.1$ Hz~999.9Hz
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY TOTAL HARMONIC DISTORTION(THD)*1 $\leq 0.2\% @ 50/60$ Hz, $\leq 0.3\% @ <500$ Hz, $\leq 0.5\% @ 500.1$ Hz~999.9Hz 100 $\mu$ s (TYP)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY TOTAL HARMONIC DISTORTION(THD)*1 $\leq 0.2\% @ 50/60$ Hz, $\leq 0.3\% @ <500$ Hz, $\leq 0.5\% @ 500.1$ Hz~999.9Hz 100 $\mu$ s (TYP)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. *3. For 5 Hz to 1 MHz components in DC mode using the output terminal on the rear panel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>*2</sup> EFFICIENCY <sup>*3</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz~999.9Hz$ $100 \ \mu s (TYP)$ 70 % or more
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>*1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>*2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 from an output current of 0 A to the maximum current (or its reverse); 10% – 90% of output voltage of 500 V to 175 V / 100 V to 350 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 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 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 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 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (or its reverse); 10% – 90% of output voltage 0 for 0 A to the maximum current (o
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>13</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>17</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>31</sup> $\leq 0.2\% (@ 50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)$ 100 µs (TYP) 70 % or more *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. 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 volta *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVC Value</b> <sup>*1</sup> <b>Resolution</b> <b>0.1</b> V
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVC Value</b> <sup>*1</sup> <b>Resolution</b> <b>0.1</b> V
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVC Value</b> <sup>*1</sup> <b>Resolution</b> <b>0.1</b> V
A1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\leq 0.2\%$ @50/60Hz, $\leq 0.3\%$ @<500Hz, $\leq 0.5\%$ @500.1Hz~999.9Hz         100 µs (TYP)         70 % or more         *1. At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For A cmode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVC Value <sup>51</sup> 0.1 V
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVC Value</b> <sup>*1</sup> <b>Resolution</b> <b>0.1</b> V
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <sup>*1</sup> <b>Resolution</b> <b>Accuracy</b> <sup>*2</sup> <b>D</b> .1 V For 45 Hz to 65 Hz and DC: $\pm (0.5\% \text{ of reading } + 0.3 V/0.6 V)$ For 40 Hz to 999.9 Hz: $\pm (0.7\% \text{ of reading } + 0.9 V/1.8$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>1</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>2</sup> <b>EFFICIENCY</b> <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <sup>*1</sup> <b>Resolution</b> <b>Accuracy</b> <sup>*2</sup> <b>D</b> .1 V For 45 Hz to 65 Hz and DC: $\pm (0.5\% \text{ of reading } + 0.3 V/0.6 V)$ For 40 Hz to 999.9 Hz: $\pm (0.7\% \text{ of reading } + 0.9 V/1.8$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>*1</sup> Resolution         0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>1</sup> Resolution         Accuracy <sup>12</sup> PEAK Value
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY       VOLTAGE RMS, AVG Value <sup>1</sup> PEAK Value       Resolution Accuracy <sup>12</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V)
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy <sup>*2</sup> PEAK Value       Resolution Accuracy <sup>*2</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.2 % of reading + 1 V / 2 V)       0.01 A
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% (0.50/60Hz, \leq 0.3\% (0.500Hz, \leq 0.5\% (0.500.1Hz-999.9Hz)$ OUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. 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 volta         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy <sup>*2</sup> PEAK Value       Resolution Accuracy <sup>*2</sup> O.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V)       0.01 A         CURRENT RMS, AVG Value       Resolution Accuracy <sup>*3</sup> 0.01 A         Accuracy <sup>*3</sup> 0.01 A         For 45 Hz
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy<sup>*2</sup></b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy<sup>*3</sup></b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy<sup>*3</sup></b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy<sup>*3</sup></b> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b>Accuracy<sup>*3</sup></b> <b></b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>(1)</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>(2)</sup> <b>EFFICIENCY</b> <sup>(3)</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(2)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>Accur</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>(*)</sup> QUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>(*)</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz         100 µs (TYP)         70 % or more         **1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, with respect to stepwise change from an output current of 0 A to the maximum current (or its reverse); 10% ~ 90% of output voltage         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy(*)         0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.4 V/0.02 Å);       For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 V/0.6 V)For 40$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>(*)</sup> QUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>(*)</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz         100 µs (TYP)         70 % or more         **1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, with respect to stepwise change from an output current of 0 A to the maximum current (or its reverse); 10% ~ 90% of output voltage         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy(*)         0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.4 V/0.02 Å);       For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 V/0.6 V)For 40$
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>(1)</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>(2)</sup> <b>EFFICIENCY</b> <sup>(3)</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(2)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>Accur</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel. <b>OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY</b> <b>TOTAL HARMONIC DISTORTION(THD)</b> <sup>(1)</sup> <b>OUTPUT VOLTAGE RESPONSE TIME</b> <sup>(2)</sup> <b>EFFICIENCY</b> <sup>(3)</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode. *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only. <b>MEASURED VALUE DISPLAY</b> <b>VOLTAGE RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(2)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>CURRENT RMS, AVG Value</b> <b>Resolution</b> <b>Accuracy</b> <sup>(3)</sup> <b>Accuracy</b> <sup>(3)</sup> <b>Accur</b>
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>(*)</sup> QUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>(*)</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz         100 µs (TYP)         70 % or more         **1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, with respect to stepwise change from an output current of 0 A to the maximum current (or its reverse); 10% ~ 90% of output voltage         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy(*)         0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.4 V/0.02 Å);       For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 V/0.6 V)For 40$
A1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         OUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>(1)</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz         100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *3. For AC mode, at 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         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accurracy(2)         0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.4 V, 0.02 A);       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.4 V, 0.02 A);         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.4 V, 0.04 A);       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.4 V, 0.02 A);   $
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         12. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         COUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>3</sup> $\leq 0.2\% (@50/60Hz, \leq 0.3\% (@ <500Hz, \leq 0.5\% (@ 500.1Hz~999.9Hz)         100 µs (TYP)         70 % or more         *1. At an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. 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 of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy2*         PEAK Value       Resolution Accuracy2*         0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 O.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.4 V/0.02 Å)       For 45 Hz to 65 Hz and DC: $
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION[THD] <sup>11</sup> OUTPUT VOLTAGE RESPONSE TIME <sup>2</sup> EFFICIENCY <sup>3</sup> Server 3         A tan output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 volta         3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         /OLTAGE RMS, AVG Value       Resolution Accuracy <sup>72</sup> PEAK Value       Resolution Accuracy <sup>73</sup> O.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 O.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 O.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.02 A)(0.02 A);
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         2UTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>(1)</sup> $0.2\%$ @ 50/60Hz, $\leq 0.3\%$ @ <500Hz, $\leq 0.5\%$ @ 500.1Hz-999.9Hz         OUTPUT VOLTAGE RESPONSE TIME <sup>(2)</sup> EFFICIENCY <sup>(3)</sup> $1.$ At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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.         3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy <sup>(2)</sup> 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V)         CURRENT RMS, AVG Value       Resolution Accuracy <sup>(3)</sup> Accuracy <sup>(3)</sup> 0.1 A         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading+0.02 A/0.02 A);         For 45 Hz to 65 H
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         12. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>e1</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz-999.9Hz$ OUTPUT VOLTAGE RESPONSE TIME <sup>e2</sup> EFFICIENCY <sup>e3</sup> $\leq 1.6 \text{ m}$ output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode. $\geq 2.6 \text{ ran 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.         \geq 2.6 \text{ ran output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         \geq 2.6 \text{ ran 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.         \sim 3. \text{ For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracye2         0.1 V       For 45 Hz to 65 Hz and DC: \pm (0.5 \% \text{ of reading} + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: \pm (0.7 \% \text{ of reading} + 0.9 V/1.8 O, 1 V (For 45 Hz to 65 Hz and DC: $
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         12. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz-999.9Hz$ OUTPUT VOLTAGE RESPONSE TIME <sup>*2</sup> EFFICIENCY <sup>*3</sup> *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. 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 3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         WEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy <sup>*2</sup> PEAK Value       Resolution Accuracy <sup>*2</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of r
*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         *3. For AC mode, at an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value       Resolution Accuracy <sup>*2</sup> PEAK Value       Resolution Accuracy <sup>*2</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(0.2 % of reading + 1 V / 2 V)       0.01 A
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY       VOLTAGE RMS, AVG Value <sup>1</sup> PEAK Value       Resolution Accuracy <sup>12</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V         For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V)
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         12. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>1</sup> Resolution Accuracy <sup>12</sup> PEAK Value       0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>1</sup> Resolution         Accuracy <sup>12</sup> PEAK Value
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 100 V / 200 V, a load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>3</sup> Resolution Accuracy <sup>32</sup> PEAK Value       Resolution Accuracy <sup>32</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ± (0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 0.1 V
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @ 50/60Hz, \le 0.3\% @ <500Hz, \le 0.5\% @ 500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY       0.1 V         YOLTAGE RMS, AVG Value <sup>1</sup> Resolution Accuracy <sup>12</sup> PEAK Value       Resolution Accuracy <sup>12</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ± (0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 0.1 V
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*1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         *2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>*1</sup> $\leq 0.2\% @ 50/60 Hz, \leq 0.3\% @ <500 Hz, \leq 0.5\% @ 500.1 Hz~999.9 Hz$ 100 µs (TYP)         70 % or more         *1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         *2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>*1</sup> Resolution         0.1 V         For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V
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1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         2. For an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>1</sup> Resolution Accuracy <sup>12</sup> PEAK Value         Resolution Accuracy <sup>12</sup> No 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V
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1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         TOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         2. For an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>1</sup> Resolution Accuracy <sup>12</sup> PEAK Value         Resolution Accuracy <sup>12</sup> No 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 0.1 V
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>1</sup> $\subseteq 0.2\% @50/60Hz, \le 0.3\% @<500Hz, \le 0.5\% @500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.         2. 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 of 100 V / 200 V, a load power factor of 1, and in AC and AC+DC mode.         2. For an output voltage of 100 V / 200 V, a load power factor of 1 and sine wave only.         MEASURED VALUE DISPLAY         VOLTAGE RMS, AVG Value <sup>3</sup> Resolution Accuracy <sup>32</sup> PEAK Value       Resolution Accuracy <sup>32</sup> 0.1 V       For 45 Hz to 65 Hz and DC: ± (0.5 % of reading + 0.3 V/0.6 V)For 40 Hz to 999.9 Hz: ± (0.7 % of reading + 0.9 V/1.8 0.1 V
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1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         OTAL HARMONIC DISTORTION(THD) <sup>e1</sup> $\leq 0.2\% (@50/60Hz, \leq 0.3\% (@<500Hz, \leq 0.5\% (@)500.1 Hz~999.9 Hz)$ 100 µs (TYP)         70 % or more         1. At an output voltage of 50 V to 175 V / 100 V to 350 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.         2. For an output voltage of 100 V / 200 V, maximum current, and load power factor of 1 and sine wave only.
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         2. For an output voltage of 75 V to 175V/150V to 350V, 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 parel.         2. DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>51</sup> $\leq 0.2\% (@50/60Hz, \leq 0.3\% (@<500Hz, \leq 0.5\% (@)500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more         1. At 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
. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output. . For an output voltage of 75 V to 175V/150V to 350V, 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. UTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY OTAL HARMONIC DISTORTION(THD) <sup>41</sup> DUTPUT VOLTAGE RESPONSE TIME <sup>52</sup> FFICIENCY <sup>43</sup> A tan output voltage of 50 V to 175 V / 100 V to 350 V, a load power factor of 1, and in AC and AC+DC mode.
1. Power source input voltage is 100 V, 120 V, or 230 V, no load, rated output.         2. For an output voltage of 75 V to 175V/150V to 350V, 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.         DUTPUT VOLTAGE WAVEFORM DISTORTION RATIO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY         FOTAL HARMONIC DISTORTION(THD) <sup>e1</sup> $\leq 0.2\% @ 50/60Hz, \leq 0.3\% @ <500Hz, \leq 0.5\% @ 500.1Hz~999.9Hz$ 100 µs (TYP)         70 % or more

SPECIFICATIONS			
		ASR-2050/ASR-2050R	ASR-2100/ASR-2100R
HARMONIC VOLTAGE EFFECTIVE VALUE (RM PERCENT (%) (AC-INT and 50/60 Hz only) HARMONIC CURRENT EFFECTIVE VALUE (RM PERCENT (%) (AC-INT and 50/60 Hz only)	Resolution Accuracy** Range S) Full Scale Resolution	Up to 100th order of the fundamental wave       Up to 100th order of the fundamental wave $175 \vee / 350 \vee, 100\%$ $175 \vee / 350 \vee, 100\%$ $0.1 \vee, 0.1\%$ $0.1 \vee, 0.1\%$ Up to 20th $\pm$ (0.2 % of reading + 0.5 $\vee / 1 \vee$ );       20th to 100th $\pm$ (0.3 % of reading + 0.5 $\vee / 1 \vee$ );         20th to 100th $\pm$ (0.3 % of reading + 0.5 $\vee / 1 \vee$ );       Up to 20th $\pm$ (0.3 % of reading + 0.5 $\vee / 1 \vee$ );         Up to 100th order of the fundamental wave       Up to 100th order of the fundamental wave         5 A / 2.5 A, 100%       0.01 A, 0.1%         Up to 20th $\pm$ (1 % of reading + 0.1 A / 0.05 A);       Up to 20th $\pm$ (1 % of reading + 0.2 A / 0.1 A);	
an met da da da a	et to RMS in AC/AC+DC mode and	20th to 100th ± (1.5 % of reading + 0.1 A / 0.05 A)	20th to 100th ± (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 ac *5. For an output voltage of *6. The apparent and reacti	t voltage of 17.5 V to 175 V / 35 V e range of 5 % to 100 % of the mail e range of 5 % to 100 % of the mail curacy of the peak value is for a w 50 V or greater, an output current ve powers are not displayed in the	to 350 V and 23 °C $\pm$ 5 °C. DC mode: For an output voltage of 25 V to 2 ximum current, and 23 °C $\pm$ 5 °C. ximum peak current in AC mode, an output current in the range of 5 % raveform of DC or sine wave t in the range of 10 % to 100 % of the maximum current, DC or an outp	to 100 % of the maximum instantaneous current in DC mode, but frequency of 45 Hz to 65 Hz, and 23 °C $\pm$ 5 °C.
OTHERS			
	mber of Memories veform Length ndard USB	OCP, OTP, OPP, FAN Fail TFT-LCD, 4.3 inch 10 sets for Store and Recall settings 16 (nonvolatile) 4096 words Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC	
INSULATION RESISTAN		MAC Address, DNS IP Address, User Password, Gateway I External Signal Input; External Control I/O Complies with the EIA-RS-232 specifications SCPI-1993, IEEE 488.2 compliant interface 500 Vdc, 30 MΩ or more	P Address, Instrument IP Address, Subnet Mask
WITHSTAND VOLTAGE	itput and chassis, input and output	1500 Vac, 1 minute	
EMC		EN 61326-1 (Class A) EN 61326-2-1/-2-2 (Class A) EN 61000-3-2 (Class A, Group 1) EN 61000-3-3 (Class A, Group 1) EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Grou EN 55011 (Class A, Group1)	p 1)
Op Sto Op Sto Alti	erating Environment erating Temperature Range rage Temperature Range erating Humidity Range rage Humidity Range tude	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	
DIMENSIONS & WEIG	HT	ASR-2000 : 285(W)×124(H)×480(D) (not including protrus ASR-2000R : 213(W)×124(H)×480(D) (not including protru	

### ORDERING INFORMATION

ASR-2050 500VA Programmable AC/DC Power Source ASR-2100 1000VA Programmable AC/DC Power Source ASR-2050R 500VA Programmable AC/DC Power Source for 3U 1/2 Rack Mount ASR-2100R 1000VA Programmable AC/DC Power Source for 3U 1/2 Rack Mount 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

## OPTIONAL ACCESSORIE

ASR-GPIB-2K Option	nal GPIB Interface for ASR-2000 (Factory installed)
ASR-EU-2K Europ	ean Output Outlet only for ASR-2000 (Factory installed)
GET-003 Extende	d Universal Power Socket(ASR-2000R only)
GET-004 Extende	d European Power Socket(ASR-2000R only)
GRA-439-E Rack M	ount Kit (EIA) ASR-001 Air inlet filter
GRA-439-J Rack M	ount Kit (JIS) ASR-002 External three phase control unit
	C Cable, approx. 2M for IP2W, IP3W, 3P4W output
GTL-258 GPIB Ca	ble, approx. 2M, including 25 pins Micro-D connector
FREE DOWNLOA	D
USB Driver	

Note : GET-003/GET-004 are not C€ approved.

#### **ASR-002** External three phase control unit



- \* Basis Requirement of ASR-002 to ASR-Series
  - 1. Must be the three same models of ASR-Series \* Functions of ASR-Series are limited when conducts to ASR-002
- 1. No DC Output 2. Measurement Items: only current(A), power(W)and PF for each phase 3. No Voltage and Current Harmonic Analysis

- 5. No Voltage and Current Harmonic Analysis
  4. No Remote Sensing Capability
  5. No Arbitrary Waveform Function
  6. No Sequence and Simulation Function
  7 Not supported External Control I/O
  8. No memory Function
  9. Only support USB, no LAN port for communication

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