

ASR-2000 Series

Compact Programmable AC/DC Power Supply

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 (std.); RS-232+GPIB (opt)
- Built-in External Control I/O and External Signal Input
- Built-in Output Relay Control and Memory Function (up to 10 sets)
- Sequence and Simulation Function (up to 10 sets)
- Support Arbitrary Waveform Function and Built-in Web Server



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

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

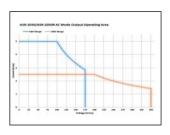
The front panel of the ASR-2050/2100 provides a universal socket or a European socket, which allows users to plug and use so as to save wiring time. The ASR-2050R/2100R is 3U height and 1/2 Rack width design, which is compatible with ATS assembly. The ASR-2000 series supports I/O interface and is equipped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

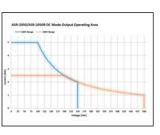


- 1. Air Inlet
- 2. LCD Screen
- 3. Display Mode Select Key
- 4. Function Keys
- 5. Scroll Wheel
- 6. Output Key
- 7. Hardcopy Key

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

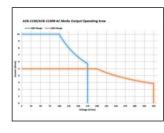


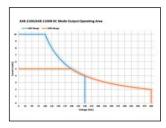




AC Output for ASR-2050/ASR-2050R

DC Output for ASR-2050/ASR-2050R





AC Output for ASR-2100/ASR-2100R

DC Output for ASR-2100/ASR-2100R

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

B. MEASUREMENT ITEMS FOR ASR-2000 SERIES

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

output. The operation areas are shown in diagrams.



RMS Meas Display

| ON | ON | ON | ON 94 | % 200V SQU | | |
|------|------|------|--------|--------------------|---------------|--------|
| Harr | Harn | Harn | Harmon | ic Voltage Measure | THDv = 42.2 % | Simple |
| 31th | 21th | 11th | 1st | 179.9 Vrms | 90.7 % | [Harm] |
| 32th | 22th | 12th | 2nd | 0.0 Vrms | 0.0% | _ |
| 33th | 23th | 13th | 3rd | 59.8 Vrm : | 30.2% | [THDV] |
| 34th | 24th | 14th | 4th | 0.0 Vrms | 0.0% | THDI |
| 35th | 25th | 15th | 5th | 35.8 Vrm : | 18.0 % | |
| 36th | 26th | 16th | 6th | 0.0 Vrms | 0.0% | |
| 37th | 27th | 17th | 7th | 25.5 Vrms | 12.9 % | |
| 38th | 28th | 18th | 8th | 0.0 Vrms | 0.0% | _ |
| 39th | 29th | 19th | 9th | 19.8 Vrms | 10.0% | Page |
| 40th | 30th | 20th | 10th | 0.0 Vrms | 0.0% | Down |



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



AVG Meas Display



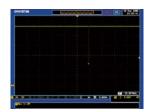
Peak Meas Display

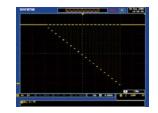
| ON | ON | ON | ON 9496 | 200V SQU | | <u> </u> |
|------|------|------|----------|-----------------|---------------|----------|
| Harr | Harn | Harn | Harmonic | Current Measure | THDI = 42.2 % | Simple |
| 31th | 21th | 11th | 1st | 4.31 Arms | 90.7 % | [Harm] |
| 32th | 22th | 12th | 2nd | 0.00 Arms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

Current Harmonic

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

SEQUENCE MODE AND APPLICATIONS

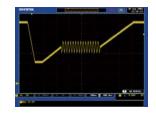




Momentary Drop in Supply Voltage

Reset Behavior at Voltage Drop

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

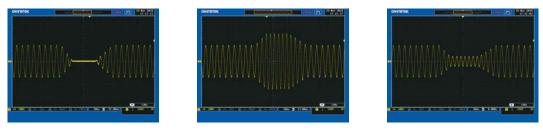


Starting Profile Waveform

Instantaneous Power Failure

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

D. SIMULATE MODE



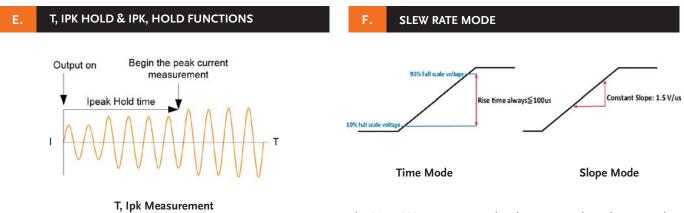
Power Outage

Voltage Rise

Voltage Fall

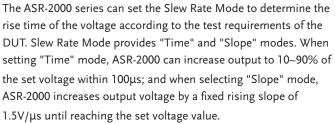
Simulate Mode can quickly simulate different transient waveforms, such as power outage, voltage rise, voltage fall, etc.,

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



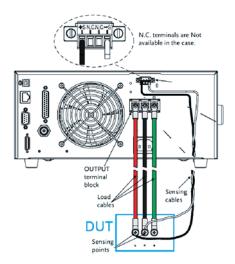
T, Ipk Hold is used to set the delay time after the output (1ms \sim 60,000ms) to capture the Ipeak value and keep the maximum value. The update only functions when the measurement value is greater than the original value. The T, Ipk Hold delay time setting can be used to measure surge current at the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

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



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

G. REMOTE SENSE FUNCTION



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

| | | ASR-2050/ASR-2050R | ASR-2100/ASR-2100R | | | |
|--|--|--|---|--|--|--|
| INPUT RATING (AC) | | | | | | |
| NORMINAL INPUT VOLTAGE | | 100 Vac to 240 Vac | 100 Vac to 240 Vac | | | |
| INPUT VOLTAGE RANGE | | 90 Vac to 264 Vac | 90 Vac to 264 Vac | | | |
| PHASE | | Single phase, Two-wire | Single phase, Two-wire | | | |
| INPUT FREQUENCY RANGE | | 47 Hz to 63 Hz | 47 Hz to 63 Hz | | | |
| MAX. POWER CONSUMPTION | | 800 VA or less | 1500 VA or less | | | |
| OWER FACTOR ^{®1} 100Vac | | 0.95 (typ.) | 0.95 (typ.) | | | |
| 200Vac MAX. INPUT CURRENT 100Vac | | 0.90 (typ.) 8 A | 0.90 (typ.) 15 A | | | |
| MAX. INPUT CURRENT 100Vac 200Vac | | 4 A | 7.5 A | | | |
| *1. For an output voltage of 100 V/2 | 200 V (100V/200V range) | maximum current, and a load power factor of 1. | | | | |
| AC MODE OUTPUT RATINGS | | · · · | | | | |
| VOLTAGE | Setting Range ^{*1} | 0.0 V to 175.0 V / 0.0 V to 350.0 V | | | | |
| | Setting Resolution | 0.1 V | | | | |
| | Accuracy ^{*2} | ±(0.5 % of set + 0.6 V / 1.2 V) | | | | |
| OUTPUT PHASE | | Single phase, Two-wire | | | | |
| MAXIMUM CURRENT ^{*3} | 100 V | 5 A | 10 A | | | |
| | 200 V 100 V | 2.5 A 20 A | 5 A | | | |
| MAXIMUM PEAK CURRENT** | 200 V | 10 A | 40 A 20 A | | | |
| POWER CAPACITY | 200 V | 500 VA | 1000 VA | | | |
| FREQUENCY | Setting Range | | | | | |
| i keçdenci | Setting Resolution | AC Mode: 40.00 Hz to 999.9 Hz, AC+DC Mode: 1.00 Hz to 999.9 Hz 0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz) | | | | |
| | Accuracy | For 45 Hz to 65 Hz: 0.01% of set, For 40 Hz to 999.9 Hz: 0.02% of set | | | | |
| | Stability ^{*5} | ± 0.005% | | | | |
| OUTPUT ON PHASE | | 0.0° to 359.9° variable (setting resolution 0.1°) | | | | |
| DC OFFSET* ⁶ | | Within ± 20 mV (TYP) | | | | |
| *1. 100 V / 200 V range | | | | | | |
| | | ine wave, an output frequency of 45 Hz to 65 Hz, no load, DC voltage s ed by the power capacity when the output voltage is 100 V to $175 \text{ V} / 20$ | | | | |
| *4. With respect to the capacitor-in | | | 0 V 10 330 V. | | | |
| | | I the resistance load for the maximum current, and the operating tempe | erature. | | | |
| *6. In the case of the AC mode and | output voltage setting to | 0 V. | | | | |
| OUTPUT RATING FOR DC MC | DDE | | | | | |
| VOLTAGE | Setting Range ^{*1} | -250 V to +250 V / -500 V to +500 V | | | | |
| | Setting Resolution | 0.1 V | | | | |
| | Accuracy ^{*2} | ±(0.5 % of set + 0.6 V / 1.2 V) | | | | |
| | 100 V | 5 A | 10 A | | | |
| MAXIMUM CURRENT ^{*3} | | | | | | |
| | 200 V | 2.5 A | 5 A | | | |
| MAXIMUM CURRENT ^{*3} MAXIMUM PEAK CURRENT ^{*4} | | | | | | |
| | 200 V 100 V | 2.5 A 20 A | 5 A 40 A | | | |
| MAXIMUM PEAK CURRENT*4 POWER CAPACITY *1. 100 V / 200 V range | 200 V 100 V 200 V | 2.5 A 20 A 10 A 500 W | 5 A 40 A 20 A 1000 W | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f | 200 V 100 V 200 V to -25 V, +25 V to +250 V | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V 1 *3. For an output voltage of 1.4 V to | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L | 2.5 A 20 A 10 A 500 W | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V 1 *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V / *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE RECULATION ^{*1} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V / *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W / -500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D mited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V i *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) pad, rated output. | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) prod, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage of 15 V to 1 *3. For 5 Hz to 1 MHz components | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the out | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) prod, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage of 15 V to 1 *3. For 5 Hz to 1 MHz components | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RAT | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maximitiput terminal on the rear panel. | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO *1 | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) and, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim utput terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM | 200 V 100 V 200 V to -25 V, +25 V to +250 V 0 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the ou M DISTORTION RATIO *1 | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin utput terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{*4} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO TIME ² | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) brad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin utput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V to *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or 21 DISTORTION RATIO ^{*1} 25 TIME ^{*2} 275 V / 100 V to 350 V, a l 200 V, a load power fact | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more to ad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or 21 DISTORTION RATIO ^{*1} 25 TIME ^{*2} 275 V / 100 V to 350 V, a l 200 V, a load power fact | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) vad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more vad power factor of 1, and in AC and AC+DC mode. | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO *1 DISTORTION RATIO *1 ZE TIME *2 75 V / 100 V to 350 V, a l 200 V, a load power factor ge of 100 V / 200 V, maxi | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more to ad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 20 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO' TO ISTORTION RATIO' TO ISTORTION RATIO' TO V / 100 V to 350 V, a l 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) rad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more coad power factor of 1, and in AC and AC+DC mode. ro of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE RECULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{**} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 20 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION RATIO IDSTORTION V (100 V to 350 V, a l 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy ^{*2} | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) and, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more fl, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO 150 DISTORTION RATIO 257 J 100 V to 350 V, a l 200 V, a load power fact ge of 100 V / 200 V, maxi Resolution Accuracy ¹² Resolution | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maximize the terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 50 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For 5 Mz to 1 MHZ VOLTAGE RMS, AVG Value ^{**} PEAK Value | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO IDSTORTION V (a 350 V, a 1 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) and, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more fl, and in AC and AC+DC mode. or 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(2 % of reading + 1 V / 2 V) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane when maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE RECULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *3. For AC mode, at an output voltage MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{**} | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 20 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or 20 DISTORTION RATIO" 20 TIME" 21 TIME" 21 TO V / 100 V to 350 V, a l 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy" Resolution Accuracy Resolution | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For 5 Mz to 1 MHZ components EFFICIENCY ^{**} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75 V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO IDSTORTION V (a 350 V, a 1 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim thrut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more ord power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading] + 0.02 A/0.02 A); | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane with the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1} PEAK Value | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO *1 DISTORTION RATIO *1 200 V, a load power fact ge of 100 V / 200 V, maxi Resolution Accuracy ^{*2} Resolution Accuracy ^{*3} | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane num current(or its reverse), using the output terminal on the rear pane v he maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading+0.08 A / 0.04 A) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of 1.4 V to *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RESPONSE EFFICIENCY ^{**} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For 5 Mz to 1 MHZ components EFFICIENCY ^{**} | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO IM DISTORTION RATIO 200 V, a load power fact ge of 100 V / 200 V, maxi Resolution Accuracy ¹² Resolution Accuracy ¹³ Resolution | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) rad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0 ad power factor of 1, and in AC and AC+DC mode. or 0 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane when maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of -250 V *3. For an output voltage of -250 V *3. For an output voltage of -250 V CUTPUT VOLTAGE STABILITY LINE RECULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM PEAK Value PEAK Value | 200 V 100 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO IM DISTORTION RATIO 200 V, a load power fact ge of 100 V / 200 V, maxi Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 0ad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane where the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 / For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 / | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{*1} LOAD REGULATION ^{*2} RIPPLE NOISE ^{*3} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{*3} *1. At an output voltage of 50 V to 1 *2. For an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value ^{*1} PEAK Value | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or 201 M DISTORTION RATIO DISTORTION RATIO 201 V, a load power fact ge of 100 V / 200 V, maxi Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(12 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading +0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 A) 0.1 A | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear panel where maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading+0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.2 % of reading+0.2 A/0.1 / 0.1 / 1 W | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of -250 V f *3. For an output voltage of -250 V f *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM PEAK Value PEAK Value POWER Active (W) | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or 201 M DISTORTION RATIO 201 V, 100 V to 350 V, a l 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy ^{*2} Resolution Accuracy ^{*4} Resolution Accuracy ^{*5} | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin typut terminal on the rear panel. IO, OUTPUT VOLTAGE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.02 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading + 0.2 A/0.1 A) 0.1 / 1 W ±(2 % of reading + 0.5 W) | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane with the maximum current (or its reverse); 10% – 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A 0.1 / 1 W ±(2 % of reading + 1 W) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V *3. For an output voltage of -250 V *3. For an output voltage of -250 V *3. For an output voltage of 1.4 V tc *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} LOAD REGULATION ^{**} LOAD REGULATION ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE VAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM PEAK Value | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 20 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO IDISTORTION RATION IDISTORTION RATION IDISTORTI | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) bad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxin atput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more bad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(0.2 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC: ±(12 % of reading + 0.2 A/0.1 A) 0.1 / 1 W ±(2% of reading + 0.5 W) 0.1 / 1 VA | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane withe maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz:±(0.7 % of reading+0.04 A/0.02 A For 40 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 / 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V f *3. For an output voltage of -250 V f *3. For an output voltage of -250 V f *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RAVEFORM OUTPUT VOLTAGE RAVEFORM PEAK Value PEAK Value POWER Active (W) | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 200 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or IM DISTORTION RATIO *1 DISTORTION RATIO *1 200 V, a load power factor ge of 100 V / 200 V, maxi Resolution Accuracy*2 Resolution Accuracy Resolution Accuracy*3 Resolution Accuracy*4 Resolution Accuracy*5*6 | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ord, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim typut terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 100 ad power factor of 1, and in AC and AC+DC mode. or 01, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading] + 1 V / 2 V) 0.01 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading] + 0.04 A/ 0.1 A For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading + 0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.2 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading]+0.5 W) 0.1 A For 45 Hz to 65 Hz and DC:±(0 | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane with the maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading+0.2 A/0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA ±(2 % of reading + 1 VA) | | | |
| MAXIMUM PEAK CURRENT ^{**} POWER CAPACITY *1. 100 V / 200 V range *2. For an output voltage of -250 V t *3. For an output voltage of 1.4 V t *4. Within 5 ms, Limited by the ma OUTPUT VOLTAGE STABILITY LINE REGULATION ^{**} LINE REGULATION ^{**} RIPPLE NOISE ^{**} *1. Power source input voltage is 10 *2. For an output voltage of 75 V to 1 *3. For 5 Hz to 1 MHz components OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE WAVEFORM OUTPUT VOLTAGE RESPONS EFFICIENCY ^{**} *1. At an output voltage of 100 V / *3. For AC mode, at an output volta MEASURED VALUE DISPLAY VOLTAGE RMS, AVG Value POWER Active (W) Apparent (VA) | 200 V 100 V 200 V 200 V to -25 V, +25 V to +250 V 100 V / 2.8 V to 200 V, L ximum current. 20 V, 120 V, or 230 V, no lo 75V/150V to 350V, a load in DC mode using the or M DISTORTION RATIO IDISTORTION RATION IDISTORTION RATION IDISTORTI | 2.5 A 20 A 10 A 500 W /-500 V to -50 V, +50 V to +500 V, no load, AC volatge setting 0V (AC+D imited by the power capacity when the output voltage is 100 V to 250 V ±0.2% or less 0.15% @45 - 65Hz; 0.5% @DC, all other frequencies (0 to 0.7 Vrms / 1.4 Vrms (TYP) ad, rated output. power factor of 1, stepwise change from an output current of 0 A to maxim tiput terminal on the rear panel. IO, OUTPUT VOLTACE RESPONSE TIME, EFFICIENCY 0.5 % or less 100 us (TYP) 70 % or more 50 ad power factor of 1, and in AC and AC+DC mode. or of 1, with respect to stepwise change from an output current of 0 A to mum current, and load power factor of 1 and sine wave only. 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.3 V/0.6 0.1 V For 45 Hz to 65 Hz and DC: ±(0.5 % of reading + 0.2 A/0.02 A); For 40 Hz to 999.9 Hz:±(0.7 % of reading + 0.04 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.2 A/0.1 A) 0.1 A For 45 Hz to 65 Hz and DC:±(2% of reading +0.5 VA) 0.1 A For 45 Hz | 5 A 40 A 20 A 1000 W C mode) and 23°C ± 5°C / 200 V to 500 V. 100%, via output terminal) num current(or its reverse), using the output terminal on the rear pane withe maximum current (or its reverse); 10% ~ 90% of output voltage V) For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.9 V/1.8 V) 0.01 A For 45 Hz to 65 Hz and DC:±(0.5 % of reading+0.04 A/0.02 A For 40 Hz to 999.9 Hz: ±(0.7 % of reading + 0.08 A / 0.04 A) 0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading)+0.2 A/0.1 A For 45 Hz to 65 Hz and DC:±(12 % of reading)+0.2 A/0.1 A 0.1 / 1 W ±(2 % of reading + 1 W) 0.1 / 1 VA ±(2 % of reading + 1 VA) 0.1 / 1 VAR | | | |
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| HARMONIC VOLTAGE FFECTIVE VALUE (MMS) Resolution Accuracy Range Full Scale Resolution Accuracy Up to 40th order of the fundamental wave 175 V 135 V, 100%. Up to 40th order of the fundamental wave 175 V 135 V, 100%. ACKIV and Sylo N conf, BERCENT (K) ACCURATE FFECTIVE VALUE (MMS) Full Scale Resolution Accuracy Up to 40th order of the fundamental wave 175 V 135 V, 100%. Up to 40th order of the fundamental wave 175 V 135 V, 100%. ACKIV and Sylo N conf, FECTIVE VALUE (MMS) FECTIVE VALUE | SPECIFICATION | | | ASR-2050/ASR-2050R | ASR-2100/ASR-2100R | | |
|--|--|--|--|---|---|--|--|
| EFFECTIVE VALUE (RMS) Full Scale 1/2 V (330 V, 100% DI V, 0.01% Up to 20th = (0.2 % of reading + 0.5 V / 1 V); Up to 20th = (0.2 % of reading + 0.5 V / 1 V); Up to 40th order of the fundamental wave 1/2 V (330 V, 100% AGNNEC CURRENT Range Up to 40th order of the fundamental wave 10 A (35 % of reading + 0.5 V / 1 V); 20th 1 400 th (20.3 % of reading + 0.5 V / 1 V); Up to 20th a (0.2 % of reading + 0.5 V / 1 V); 20th 1 400 th code of the fundamental wave FEECTIVE VALUE (RMS) Resolution 0.01 A, 001% Up to 20th a (1.2 % of reading + 0.1 A / 0.05 A); 20th to 400th ± (1.5 % of reading + 0.1 A / 0.05 A); 2.7 Act mode for an output voltage of 3V to 103 V / 103 V / 13V V 15V V / 15V 15 | | | | A3K-2030/A3K-2030K | A3R-2100/A3R-2100R | | |
| PERCENT (%) Resolution 0.1 0.01% 0.1 0.01% ACKINT and SM(60 Hz own) Accuracy ² Up to 20th is (0.2 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V); 20th to 40th ± (0.3 % of reading + 0.2 V / 1 V); 20th to 40th ± (0.5 % of reading + 0.2 V / 1 V); 20th to | HARMONIC VOL | TAGE | Range | Up to 40th order of the fundamental wave | Up to 40th order of the fundamental wave | | |
| AC:INT and \$30/60 Hz only) Accuracy ³ Up to 20th = (0.2 % of reading + 0.5 V / 1 V); Up to 20th = (0.3 % of reading + 0.5 V / 1 V); Up to 40th order of the fundamental wave SA / 25 A. 100% Up to 20th = (0.2 % of reading + 0.5 V / 1 V); Up to 40th order of the fundamental wave SA / 25 A. 100% FERCIFY HVULE (EMS) FERCIFY 4.ULUE (EMS) Accuracy ³ Resolution Accuracy ³ Up to 20th = (1.0 % of reading + 0.1 A / 0.05 A); Up to 20th = (1.0 % of reading + 0.1 A / 0.05 A); Up to 20th = (1.0 % of reading + 0.1 A / 0.05 A); Up to 20th = (1.0 % of reading + 0.1 A / 0.05 A); Up to 20th = (1.0 % of reading + 0.2 A / 0.1 A); 20th to 40th order of the fundamental wave TAC mode for a nutput voltage of 1.0 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.2 A / 0.1 A); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å); 20th to 40th a (1.5 % of reading + 0.1 A / 0.05 Å | EFFECTIVE VALUE (RMS) Full Scale | | Full Scale | 175 V / 350 V, 100% | 175 V / 350 V, 100% | | |
| ARRONIC CURRENT FAROONIC CURRENT FAILSCALE Zohn to 40th ± (0.3 % of reading ± 0.5 ½/ 1 Y) Up to 40th order of the fundamental wave SA / 25 A 100% Up to 40th order of the fundamental wave SA / 25 A 100% DFECENT (%) FAINT and sQUe to early FAINT and sQUe to early Accuracy ^T Accuracy ^T Dit to 40th order of the fundamental wave SA / 25 A 100% 11. The voltage display is set to RMS in AC/AC-DC mode and ACG in DC mode. 7.4 An output current in the range of 5 % to 10% of the maximum park during to 1.2 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.05 A); 20t | | | Resolution | 0.1 V, 0.01% | 0.1 V, 0.01% | | |
| HARMONIC CURRENT FRECTIVE VALUE (RMS) FRECTIVE VALUE (R | (AC-INT and 50/60 Hz only) Accuracy [®] | | Accuracy [®] | | | | |
| EFFECTIVE VALUE (RMS) Factors of the rank of Section Sectin Sectin Section Section Section Section Section Sect | | | | 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V) | 20th to 40th ± (0.3 % of reading + 0.5 V / 1 V) | | |
| PERCENT (%) Resolution 0.01 A, 0.01% 0.01 A, 0.01% Up to 20th t; (1% of reading + 0.1 A / 0.05 A); 20th to 40th ± (1.5% of reading + 0.1 A / 0.05 A) 0.01 A, 0.01% 1. The voltage display is set to RMS in AC/AC-DC mode and AVC in DC mode. A concept consigned output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C. 20th to 40th ± (1.5% of reading + 0.1 A / 0.05 A) Up to 20th to 40th ± (1.5% of reading + 0.2 A / 0.1 A); 20th to 40th ± (1.5% of reading + 0.2 A / 0.1 A). 1. The voltage display is set to RMS in AC/AC-DC mode and AVC in DC mode. A concept can output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C. 3. An output current in the range of 1% to 100 % of the maximum current, and 23 °C ± 5 °C. The reacture power and catcle power | HARMONIC CURRENT Range | | Range | Up to 40th order of the fundamental wave | Up to 40th order of the fundamental wave | | |
| PERCENT (%) Resolution 0.01 A, 0.01% 0.01 A, 0.01% Up to 20th t; (1% of reading + 0.1 A / 0.05 A); 20th to 40th ± (1.5% of reading + 0.1 A / 0.05 A) 0.01 A, 0.01% 1. The voltage display is set to RMS in AC/AC-DC mode and AVC in DC mode. A concept consigned output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C. 20th to 40th ± (1.5% of reading + 0.1 A / 0.05 A) Up to 20th to 40th ± (1.5% of reading + 0.2 A / 0.1 A); 20th to 40th ± (1.5% of reading + 0.2 A / 0.1 A). 1. The voltage display is set to RMS in AC/AC-DC mode and AVC in DC mode. A concept can output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C. 3. An output current in the range of 1% to 100 % of the maximum current, and 23 °C ± 5 °C. The reacture power and catcle power | EFFECTIVE VALU | E (RMS) | Full Scale | 5 A / 2.5 A, 100% | 10 A / 5 A, 100% | | |
| Activity and \$3(96) Hz only Accuracy ⁷ Up to 20th ± (1 % of reading ± 0.1 A / 0.05 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.2 A / 0.05 A) Up to 20th ± (1 % of reading ± 0.2 A / 0.1 A); 20th to 40th ± (1.5 % of reading ± 0.1 A / 0.0 A / 0.1 A / 0.0 A / 0.1 A / 0. | | . , | | | | | |
| 20th to 40th ± (1.5 % of reading + 0.1 Å / 0.05 Å) 20th to 40th ± (1.5 % of reading + 0.2 Å / 0.1 Å) 1. The voltage display is set to RMS in AC/AC-DC mode and AVS in DC mode. 22 A / 0.05 Å) 20th to 40th ± (1.5 % of reading + 0.2 Å / 0.1 Å) 2. A mode picture in the mage of S % to 100 % of the maximum current, and 23 °C ± 5 °C. 3. An output current in the mage of S % to 100 % of the maximum current, and 23 °C ± 5 °C. 3. An output current in the mage of S % to 100 % of the maximum current, and 23 °C ± 5 °C. 3. An output current in the mage of S % to 100 % of the maximum current in AC mode, an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C. 5. The accuracy of the peak values is for a waveform of DC or sine wave and 22 °C ± 5 °C. The maximum peak current in AC mode, an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C. 7. The reactive power is for the load with the power factor 0.5 or lows: *8. An output voltage in the range of 17.5 V to 175 V to 350 V and 23 °C ± 5 °C. DTHERS OCP, OTP, OPP, FAN Fail TFT-LCD, 4.3 inch 10 sets for 50 fore and Recall settings 16 (nonvolatile) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask External Signal Input; External Control I/O Schery Schery Optional GPIB RSULATION RESISTANCE EN 61326-1 (Class A) ENC Foreating Environment Operating Environment Operating Environment Operating Environment Operating Environment Operating Environment | | | | | | | |
| 2: A C mode: For an output voltage of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. DC mode: For an output voltage of 25 V to 250 V / 50 V to 500 V and 23 °C ± 5 °C. 4: An output current in the range of 55 V to 100 % of the maximum peak current in AC mode, an output current in the range of 55 V to 100 % of the maximum peak current in AC mode, an output current in the range of 50 V or greater, an output voltage of 10 % to 100 % of the maximum current. DC or an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C. 6: The an output voltage of 30 V or greater, an output voltage of 10 % to 100 % of the maximum current. DC or an output frequency of 45 Hz to 65 Hz, and 23 °C ± 5 °C. 7: The reactive power is for the load with the power factor 0.5 or lower. *8: An output voltage in the range of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. 7: The reactive power is for the load with the power factor 0.5 or lower. *8: An output voltage in the range of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. 7: The reactive power is for the load with the power factor 0.5 or lower. *8: An output voltage in the range of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. 7: The reactive power is for the load with the power factor 0.5 or lower. *8: An output voltage in the range of 17.5 V to 175 V / 35 V to 350 V and 23 °C ± 5 °C. 7: The reactive power is for the load with the power factor 0.5 or lower. *8: An output voltage of 1.1 / 2.0, USB-CDC Wareform Length NTERFACE Standard USP VSEX TOON CESSTANCE Restrom option and chassis, input and output WITH STAN D VOLTAGE Brower input and chassis, input and output WITH STAN D VOLTAGE Brower input and chassis, input and output WITH STAN D VOLTAGE Brower input and chassis, input and output NO OP an output voltage of 20 °C (Class A) For an output voltage of 20 °C (Class A) For an output voltage of 20 °C (Class A) For 100 ° | , | | ,, | 0000 | | | |
| PROTECTIONS OCP, OTP, OPP, FAN Fail DISPLAY TTF-LCD, 4.3 inch WEMORY FUNCTION 10 sets for Store and Recall settings NTERFACE Standard USB Market Control LAN LAN EXT Control EXT Control Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC MAC Address, DNS IP Address, User Password, Cateway IP Address, Instrument IP Address, Subnet Mask Extractional GPIB RS-2322C NSULATION RESISTANCE Score and Recall settings Between input and chassis, output and chassis, input and output Score and Recall settings Storage Temperature Range Operating Environment Operating Environment Operating Humidity Range Altitude Storage Temperature Range Operating Humidity Range Altitude Over Address, Croup 11 DIMENSIONS & WEIGHT 0% RH or less (no condensation) 0% RH or less (no condensation) Up to 2000 m ASR-2000: 285(W)×124(H)×480(D) (not including protrusions): Approx. 11.5 kg SREENING INFORMATION ASR-2000C 2000 K: 213(W)×124(H)×480(D) (not including protrusions): Approx. 11.5 kg | *2. AC mode: For an *3. An output curren *4. An output curren and 23 °C ± 5 °C. *5. For an output vol *6. The apparent and | output voltage o at in the range of at in the range of . The accuracy of ltage of 50 V or g d reactive powers | of 17.5 V to 175 V / 35 V 5 % to 100 % of the ma 5 % to 100 % of the ma the peak value is for a w reater, an output curren are not displayed in the | to 350 V and 23 °C \pm 5 °C. DC mode: For an output voltage of 25 V to ximum current, and 23 °C \pm 5 °C. ximum peak current in AC mode, an output current in the range of 5 vaveform of DC or sine wave t in the range of 10 % to 100 % of the maximum current, DC or an output current. | % to 100 % of the maximum instantaneous current in DC mode, tput frequency of 45 Hz to 65 Hz, and 23 °C \pm 5 °C. | | |
| DISPLAY WEMORY FUNCTION TT-1CD, 4.3 inch 10 sets for Store and Recall settings TT-1CD, 4.3 inch 10 sets for Store and Re | OTHERS | | | | | | |
| MEMORY FUNCTION 10 sets for Store and Recall settings ARBITRARY WAVE Number of Memories 16 (nonvolatile) Waveform Length 4096 words NTERFACE Standard USB LAN LAN Pactory Optional CPIB Restrant Signal Input; External Control I/O SCPI-1993, IEEE 488.2 compliant interface NSULATION RESISTANCE 500 Vdc, 30 MΩ or more Baween input and chassis, output and chassis, input and output 1500 Vac, 1 minute VITHSTAND VOLTACE EN 61326-1 (Class A) Between input and chassis, output and chassis, input and output EN 61326-21/2-2 (Class A) Safety EN 61326-1 (Class A) Safety Operating Environment Operating Environment Operating Humidity Range Storage Temperature Range Operating Humidity Range Storage Temperature Range OW 6R Hor 0800 % RH (no condensation) 10 % RH or less (no condensation) DIMENSIONS & WEIGHT ASR-20000 r.213(W):124(H)×480(D) (not including protrusions); Approx. 11.5 kg SARE SARE Communication Functions (Factory installed) | PROTECTIONS | | | OCP, OTP, OPP, FAN Fail | | | |
| ARBITRARY WAVE Number of Memories Waveform Length 16 (nonvolatile) 4096 words NTERFACE Standard USB LAN EXT Control Factory Optional GPIB RS-232C 16 (nonvolatile) 4096 words NSULATION RESISTANCE Between input and chassis, output and chassis, input and output MAC Address, Sup P Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask External Signal Input; External Control I/O SCPI-1993, IEEE 488.2 compliant interface Complies with the EIA-RS-232 specifications NSULATION RESISTANCE Between input and chassis, output and chassis, input and output 500 Vdc, 30 MΩ or more Iso0 Vac, 1 minute 1500 Vac, 1 minute EMC EN 61326-1 (Class A) EN 61000-32 (Class A, Group 1) EN 61000-33 (Class A, Group 1) EN 61000-33 (Class A, Group 1) EN 61000-42 (-4-3)(-4-4)(-4- | DISPLAY | | | | | | |
| Waveform Length NTERFACE USB LAN EXT Control Factory Optional USB CPIB CPIB RS-232C 4096 words Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask External Signal Input, External Control I/O SCPI-1993, IEEE 488.2 compliant interface Complex with the EIA-RS-232 specifications 500 Vdc, 30 MΩ or more NSULATION RESISTANCE Between input and chassis, output and chassis, input and output 500 Vdc, 30 MΩ or more 500 Vdc, 30 MΩ or more Stafety 1500 Vac, 1 minute 1500 Vac, 1 minute Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Storage Humidity Range Storag | MEMORY FUNCT | ΓΙΟΝ | | 10 sets for Store and Recall settings | | | |
| Waveform Length NTERFACE USB LAN EXT Control Factory Optional USB CPIB CPIB RS-232C 4096 words Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask External Signal Input, External Control I/O SCPI-1993, IEEE 488.2 compliant interface Complex with the EIA-RS-232 specifications 500 Vdc, 30 MΩ or more NSULATION RESISTANCE Between input and chassis, output and chassis, input and output 500 Vdc, 30 MΩ or more 500 Vdc, 30 MΩ or more Stafety 1500 Vac, 1 minute 1500 Vac, 1 minute Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Storage Humidity Range Storag | ARBITRARY WAVE | E Number of I | Memories | 16 (nonvolatile) | | | |
| LAN EXT Control Rectory Optional Rescass. LAN EXT Control RS-232C MAC Address, DNS IP Address, User Password, Cateway IP Address, Instrument IP Address, Subnet Mask External Signal Input; External Control I/O Subscriptional Reveen input and chassis, output and chassis, input and output SCPI-1933, IEE 488, 20 compliant interface Complies with the EIA-RS-232 specifications Subscriptional Reveen input and chassis, output and chassis, input and output 1500 Vac, 1 minute Safety Environment Deparating Environment Operating Environment Operating Emperature Range Storage Humidity Range Altitude No Condensation) 10 °C to 40 °C -10 °C to 40 °C -10 °C to 70 °C 20 % RH or less (no condensation) 90 % RH | | | | 4096 words | | | |
| EXT Control Factory Optional EXT Control GPIB RS-232C External Signal Input; External Control I/O SCPI-1993, IEEE 488.2 compliant interface NSULATION RESISTANCE Between input and chassis, output and chassis, input and output External Signal Input; External Control I/O SCPI-1993, IEEE 488.2 compliant interface WITHSTAND VOLTACE Between input and chassis, output and chassis, input and output ISO0 Vdc, 30 MQ or more Sofety EN 61326-21/-2-2 (Class A) EN 61306-3-3 (Class A, Group 1) EN 61000-3-2 (Class A, Group 1) EN 61000-3-2 (Class A, Group 1) EN 61000-3-3 (Class A, Group 1) EN 61000-3-3 (Class A, Group 1) EN 61000-42/-43/-43/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) EN 61000-1 Indoor use, Overvoltage Category II 0 °C to 40 °C 20 %rh to 80 % RH (no condensation) 90 % RH or less | INTERFACE | Standard | USB | Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC | | | |
| Factory Optional GPIB RS-232C SCPI-1993, IEEE 482.2 compliant interface NSULATION RESISTANCE Between input and chassis, output and chassis, input and output SCPI-1993, IEEE 482.2 compliant interface VITHSTAND VOLTACE Between input and chassis, output and chassis, input and output 1500 Vac, 1 minute Setween input and chassis, output and chassis, input and output IS00 Vac, 1 minute Setween input and chassis, output and chassis, input and output EN 61326-1 (Class A) EN 61326-2-1/-2-2 (Class A) EN 61000-3-2 (Class A, Group 1) Safety EN 61326-2-1/-2-2 (Class A, Group 1) EN 61000-3-2 (Class A, Group 1) EN 6100-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) EN 61000-1 EN 6100-1 Indoor use, Overvoltage Category II Operating Temperature Range Storage Temperature Range Altitude 0 °C to 40 °C 20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) Up to 2000 m DIMENSIONS & WEIGHT ASR-2000 : 285 (W)×124 (H)×480 (D) (not including protrusions); Approx. 11.5 kg ASR-2000 : 213 (W)×124 (H)×480 (D) (not including protrusions); Approx. 10.5 kg Scelections subject to change without notice. ASR-2000CT OPTIONAL ACCESSORIES OPTIONAL ACCESSORIES | | | LAN | MAC Address, DNS IP Address, User Password, Gateway | IP Address, Instrument IP Address, Subnet Mask | | |
| RS-232C Complies with the EIA-RS-232 specifications NSULATION RESISTANCE Between input and chassis, output and chassis, input and output Sol Vdc, 30 MΩ or more WITHSTAND VOLTAGE Between input and chassis, output and chassis, input and output Iso0 Vac, 1 minute SMC EN 61326-1 (Class A) EN 61326-21/2-2 (Class A) EN 61326-21/2-2 (Class A, Group 1) EN 61000-3-2 (Class A, Group 1) EN 61000-3-2 (Class A, Group 1) EN 61000-4-2/-43/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) 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) 90 % RH | | | EXT Control | External Signal Input; External Control I/O | | | |
| NSULATION RESISTANCE Between input and chassis, output and chassis, input and output VITHSTAND VOLTAGE Between input and chassis, output and chassis, input and output Stafety Safety Environment Operating Environment Operating Temperature Range Operating Humidity Range Storage Temperature Range Operating Humidity Range Altitude DIMENSIONS & WEIGHT ORDERING INFORMATION | | Factory Opt | | | | | |
| Between input and chassis, output and chassis, input and output 1500 Vac, 1 minute WITHSTAND VOLTACE 1500 Vac, 1 minute Between input and chassis, output and chassis, input and output 1500 Vac, 1 minute Setween input and chassis, output and chassis, input and output 1500 Vac, 1 minute Setween input and chassis, output and chassis, input and output 1500 Vac, 1 minute Setween input and chassis, output and chassis, input and output EN 61326-2-1/-2-2 (Class A) EMC EN 61326-2-1/-2-2 (Class A) EN 61000-3-3 (Class A, Group 1) EN 61000-3-3 (Class A, Group 1) EN 61000-42/-4-3/-4-6/-4-8/-4-6/-4-8/-4-11 (Class A, Group 1) EN 61000-42/-4-3/-4-6/-4-8/-4-11 (Class A, Group 1) Environment Operating Environment 0 operating Temperature Range Operating Temperature Range 0 °C to 40 °C -10 °C to 70 °C Operating Humidity Range 20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RF volo : 285 (W) × 124 (H) × 480 (D) (not including protrusions); Approx. 11.5 kg Scheidure Subject to change without notice. ASR-2000 Class Subject to change without notice. ASR-2000 Class Subject to change without notice. DIMENSIONS & WEIGHT ASR-2000 Class Subject to change | | | RS-232C | Complies with the EIA-RS-232 specifications | | | |
| WITHSTAND VOLTACE 1500 Vac, 1 minute Between input and chassis, output and chassis, input and output In fill 1262-11/2-2 (Class A) EMC EN 61326-1 (Class A) EMC EN 61326-21/2-2 (Class A) Safety EN 61000-3-2 (Class A, Group 1) EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) Environment Operating Environment EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11 (Class A, Group 1) Environment Operating Temperature Range Over to 40 °C Storage Temperature Range Over to 80 % RH (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) Up to 2000 m ASR-2000 : 225(W)×124(H)×480(D) (not including protrusions); Approx. 11.5 kg ASR-2000 : 213(W)×124(H)×480(D) (not including protrusions); Approx. 11.5 kg Specifications subject to change without notice. ASR-2000GT OPTIONAL Accessore ASR-2000GT OPTIONAL Accessore ASR-2000GT | | | | 500 Vdc, 30 M Ω or more | | | |
| Between input and chassis, input and output EMC ENC ENC ENC ENC ENC ENC ENC ENC ENC EN | Between input and cha | assis, output and c | hassis, input and output | | | | |
| EMC ENC ENC ENC ENC ENC ENC ENC EN | | | hassis input and output | 1500 Vac, 1 minute | | | |
| Safety Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Altitude 0 °C to 40 °C -10 °C to 70 °C 20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) Up to 2000 m ASR-2000 : 285 (W) × 124 (H) × 480 (D) (not including protrusions); Approx. 11.5 kg ASR-2000 : 285 (W) × 124 (H) × 480 (D) (not including protrusions); Approx. 10.5 kg Specifications subject to change without notice. ASR-2000CE | | issis, ouiput una e | nassis, input and output | EN 61326 1 (Class A) | | | |
| Safety Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Altitude DIMENSIONS & WEIGHT DIMENSIONS & WEIGHT OPERATION DIMENSIONS & WEIGHT DIMENSIONS & WEIGHT OPERATION DIMENSIONS & WEIGHT DIMENSIONS & WEIG | LIVIC | | | | | | |
| Safety Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Altitude DIMENSIONS & WEIGHT DIMENSIONS & WEIGHT | | | | | | | |
| Safety EN 61000-4-2/-4-3/-4-4/-5/-4-6/-4-8/-4-11 (Class A, Group 1) Environment Operating Environment EN 61010-1 Operating Temperature Range Overating Temperature Range 0 °C to 40 °C Storage Temperature Range -10 °C to 70 °C -0 °C to 40 °C Operating Humidity Range -10 °C to 70 °C 20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 91 % RA color 285 (W)×124 (H)×480(D) (not including protrusions); Approx. 11.5 kg ASR-2000 r: 213 (W)×124 (H)×480(D) (not including protrusions); Approx. 10.5 kg Specifications subject to change without notice. ASR-200GT | | | | | | | |
| Safety EN 55011 (Class Å, Group1) Environment Operating Environment Operating Temperature Range Storage Temperature Range Operating Humidity Range Altitude 0 °C to 40 °C DIMENSIONS & WEIGHT -10 °C to 70 °C DIMENSIONS & WEIGHT -20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) Up to 2000 m DIMENSIONS & WEIGHT | | | | | | | |
| Safety EN 61010-1 Environment Operating Environment Operating Temperature Range 0 °C to 40 °C Storage Temperature Range 0 °C to 70 °C Operating Humidity Range 20 %rh to 80 % RH (no condensation) Storage Humidity Range 20 %rh to 80 % RH (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 90 % RH or less (no condensation) 91 to to 2000 m ASR-2000 : 285 (W)×124 (H)×480 (D) (not including protrusions); Approx. 11.5 kg Specifications subject to change without notice. ASR-2000GE OPTIONAL ACCESSORIES Opti01 : RS-232+GPIB Communication Functions (Factory installed) | | | | | | | |
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| ASR-2000R : 213 (Ŵ)×124 (H)×480 (D) (not including protrusions); Approx. 10.5 kg Specifications subject to change without notice. ASR-2000GE ORDERING INFORMATION ASP 2050 = 500 (A Decomposition Functions (Factory installed) | DIMENSIONS & | | | • | sions); Approx. 11.5 kg | | |
| ORDERING INFORMATION OPTIONAL ACCESSORIES Opt01 : RS-232+GPIB Communication Functions(Factory installed) | | | | | | | |
| Opt01 : RS-232+GPIB Communication Functions(Factory installed) | | | | Spe | cifications subject to change without notice. ASR-2000GD | | |
| Opt01 : RS-232+GPIB Communication Functions (Factory installed) | ORDERING IN | IFORMATIO | N | OPTIONAL ACCE | SSORIES | | |
| | | | | | | | |

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

| | Specifications subject to | change wi | thout notice. | ASR-2000GD1BH |
|------------|---|------------|------------------|----------------------|
| OPTIONA | L ACCESSORIES | | | |
| | -232+GPIB Communication I ropean Output Outlet only fo | | | |
| GET-003 | Extended Universal Power Se | ocket(ASR | -2000R only) | |
| GET-004 | Extended European Power S | ocket (ASR | -2000R only) | |
| GRA-439-E | Rack Mount Kit (EIA) | GTL-258 | GPIB Cable, a | pprox. 2M, including |
| GRA-439-J | Rack Mount Kit (JIS) | | | o-D connector |
| GTL-232 | RS-232C Cable, approx. 2M | ASR-001 | Air inlet filter | r |
| FREE DO | WNLOAD | | | |
| USB Driver | | | | |

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