

High Power DC Electronic Load AN236(F) Series

Product Introduction

The AN236(F) Series is a new high power DC electronic load introduced by Ainuo Instrument Co., Ltd. It offers voltage ranges of 150V, 600V, and 1,200V, with power ranges from 2kW to 60kW. This series of electronic loads are mainly used for testing products in various fields such as new energy vehicle OBCs, power batteries, charging stations, power electronics, servo/server power supplies, high voltage UPS, military, photovoltaics, grid energy storage, aerospace, and more. Featuring a new generation digital controller, it comes with five basic modes, seven advanced modes, and sequence function to meet users' programming and automation test requirements.

Features

- High power density: 6kW in 4U height, and 24kW in 13U height. Compact, light, convenient.
- With precision measurement technology, it supports voltage accuracy of 0.015%+0.015%F.S., current accuracy of 0.04%+0.04%F.S., and power accuracy of 0.1%+0.1%F.S. (maintained constant at high temperatures).
- Built-in dynamic loading mode with a dynamic frequency of up to 25kHz and Vpk+/- test function.
- Built-in FLEX mode for simulating capacitive loads, inductive loads, and complex impedance loads.
- Wide range, offering nearly twice the current range of traditional high power loads with the same capacity.
- Excellent dynamic characteristics, with a maximum current slew rate of 96A/us.
- Built-in functions include constant current(CC), constant voltage(CV), constant resistance(CR), constant power(CP), short circuit simulation, overcurrent protection test, sequence test, etc.
- It has comprehensive protection features including overcurrent, overvoltage, overtemperature, reverse connection, SENSE protection, etc.
- It has a built-in temperature sensing chip and a speed-controlled fan.
- It has a built-in battery mode for discharging tests for energy integration and timing.
- It has rich interfaces such as standard LAN, GPIB, USB, CAN, RS232, RS485 and other interfaces.



Serialized Models



The AN236(F) Series offers a complete range of models to choose from, as shown in the table below.

| | 150V | 600V | 1200V | Height |
|------|----------------------|----------------------|-----------------------|--------|
| 2kW | AN23602E-150-200(F) | AN23602E-600-140(F) | AN23602E-1200-80(F) | 4U |
| 3kW | AN23603E-150-300(F) | AN23603E-600-210(F) | AN23603E-1200-120(F) | 4U |
| 4kW | AN23604E-150-400(F) | AN23604E-600-280(F) | AN23604E-1200-160(F) | 4U |
| 5kW | AN23605E-150-500(F) | AN23605E-600-350(F) | AN23605E-1200-200(F) | 4U |
| 6kW | AN23606E-150-600(F) | AN23606E-600-420(F) | AN23606E-1200-240(F) | 4U |
| 8kW | AN23608E-150-800(F) | AN23608E-600-560(F) | AN23608E-1200-320(F) | 7U |
| 10kW | AN23610E-150-1000(F) | AN23610E-600-700(F) | AN23610E-1200-400(F) | 7U |
| 12kW | AN23612E-150-1200(F) | AN23612E-600-840(F) | AN23612E-1200-480(F) | 7U |
| 15kW | AN23615E-150-1500(F) | AN23615E-600-1050(F) | AN23615E-1200-600(F) | 10U |
| 18kW | AN23618E-150-1800(F) | AN23618E-600-1260(F) | AN23618E-1200-720(F) | 10U |
| 20kW | AN23620E-150-2000(F) | AN23620E-600-1400(F) | AN23620E-1200-800(F) | 13U |
| 24kW | AN23624E-150-2400(F) | AN23624E-600-1680(F) | AN23624E-1200-960(F) | 13U |
| 30kW | AN23630E-150-2400(F) | AN23630E-600-2100(F) | AN23630E-1200-1200(F) | 26U |
| 36kW | AN23636E-150-2400(F) | AN23636E-600-2400(F) | AN23636E-1200-1440(F) | 26U |
| 42kW | AN23642E-150-2400(F) | AN23642E-600-2400(F) | AN23642E-1200-1680(F) | 34U |
| 48kW | AN23648E-150-2400(F) | AN23648E-600-2400(F) | AN23648E-1200-1920(F) | 34U |
| 54kW | AN23654E-150-2400(F) | AN23654E-600-2400(F) | AN23654E-1200-2160(F) | 38U |
| 60kW | AN23660E-150-2400(F) | AN23660E-600-2400(F) | AN23660E-1200-2400(F) | 33U |

Any changes to the above parameter specifications will not be notified separately.

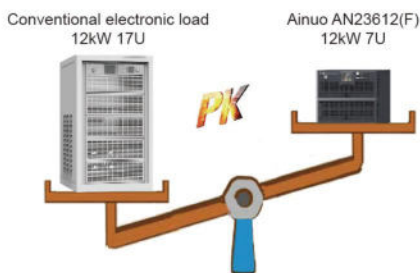
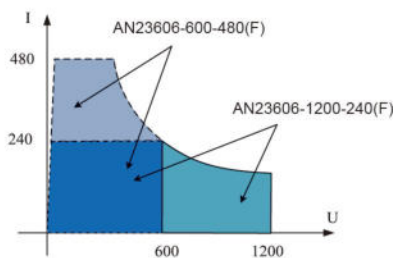
Applications

- DC charging pile/on-board charger and power electronics tests.
- Smart manufacturing and industrial motor tests.
- Automotive electronics tests, such as fuses, control boxes, etc.
- Relay simulation load test.
- Military aerospace power test.
- Server power supplies, high voltage UPS, and communication power tests.
- Battery discharge test.
- Virtual load tests for photovoltaic component array and wind power generation.
- Simulation test for energy storage systems.
- DC power supply and power electronic components.



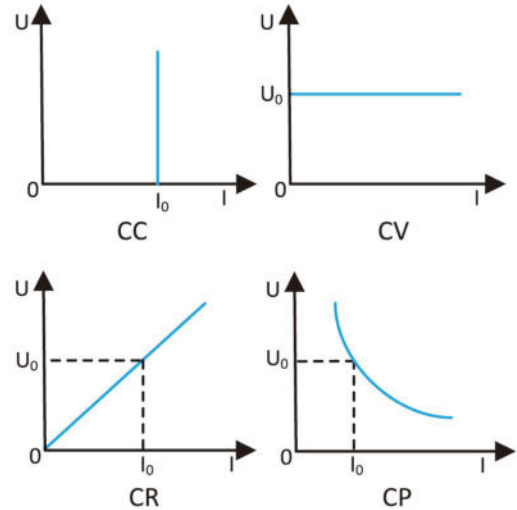
High Power Density, Compact and Wide Voltage

- The AN236(F) Series load features a wide input voltage and current range, meeting various testing needs for high current, low voltage, or high voltage, low current. With a high power density design, it has half the volume and one-third of the weight compared to traditional electronic loads.



Basic Mode

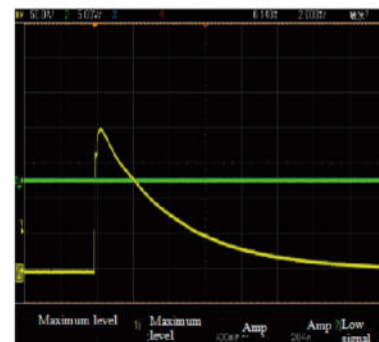
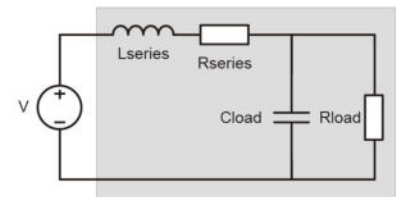
Built-in basic constant voltage(CV), constant current(CC), constant resistance(CR), and constant power(CP) modes, which can meet a wide range of testing needs.



FLEX Mode - Built-In Composite Impedance Network startup mode

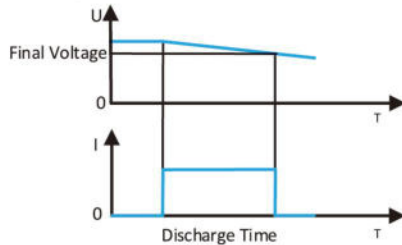
The input filter capacitor in real load will cause a huge inrush current at the moment of power-on. The parasitic resistance and inductance of long internal lead will cause further distortion of the loading wave. So its impedance will be equivalent to a complex impedance network. The built-in complex impedance (FLEX) mode the AN236(F) series is designed to simulate such loads to test the suitability of the power supply under test. The four test parameters shown in the figure below are decomposed according to the characteristics of the real load in this mode. After power-on, the load will load current according to the impedance network.

FLEX Mode
 Lseries: 0.1uH-20uH
 Rseries:30mΩ-20Ω
 Cload: 30uF-50,000uF
 Rload: Aligned with the high-gear CR mode



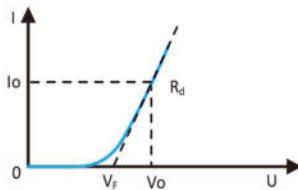
BATY Mode - Battery Test Dedicated Mode

For batteries, the AN236(F) Series load provides three discharge modes: constant current, constant resistance, and constant power modes. By setting voltage thresholds and test times (1s-100,000s), the electronic load can control the load to prevent over-discharge and battery damage. Additionally, the load also provides a display of the discharged energy. The BATY mode is also suitable for super capacitors and similar discharge testing scenarios.



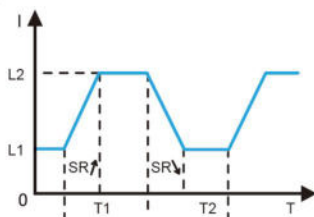
LED Mode - Simulated LED Characteristics Load Mode

The AN236(F) Series load features a built-in simulated LED characteristics load mode, which simulates the model shown in the figure on the right for loading. It simulates the characteristics of a LED with zero current before conduction and then rising along the V-I curve after conduction. By using electronic load for simulated loading effectively, it solves the light pollution and parameter instability issues associated with using LED strips and resistor loads.



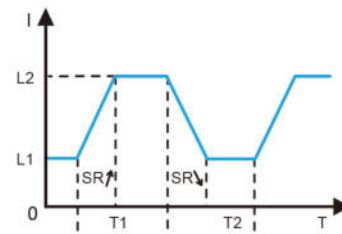
CCD Mode - Rapid Dynamic and Vpp Testing

The AN236(F) series of loads feature built-in high-speed dynamic loading testing capabilities, with dynamic changes possible up to 25kHz. Users can set a repeating number of cycles for a specified period, ranging from 1 to 100,000, or conduct continuous dynamic loading. As illustrated in the diagram below, users can set the high and low loading values of the current, loading time, rise and fall slopes, etc. While conducting dynamic loading, the load also provides measurements of the peak-to-peak voltage, with a sampling frequency of up to 500kHz.



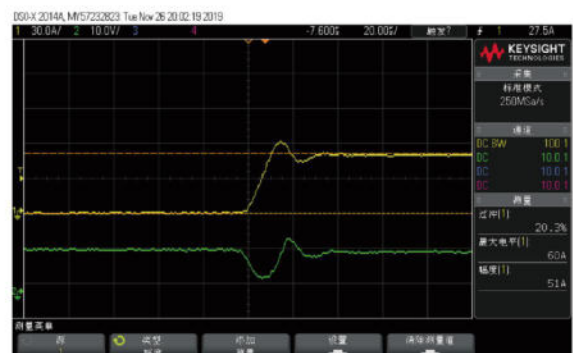
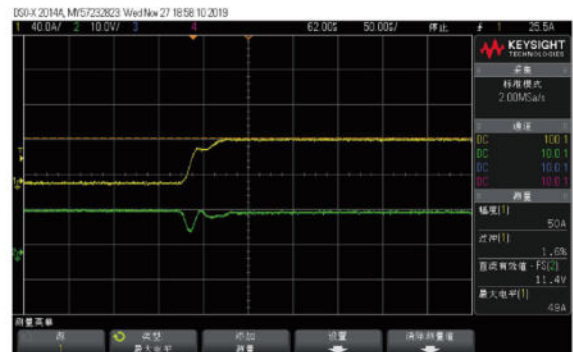
CRD Mode - Rapid Dynamic and Vpp Testing

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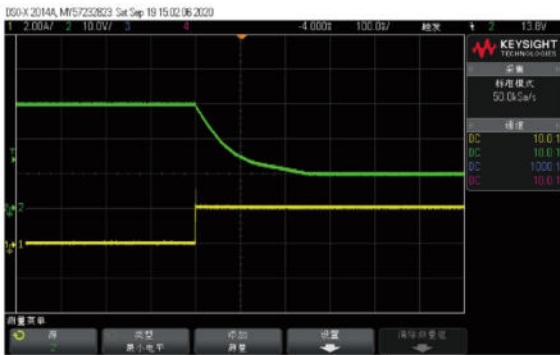
CC Mode - Ultra-Fast Loading Speed and Ultra-Low Overshoot

For example, the AN23606E-1200-240(F) can provide a rise speed of 12A/uS. While addressing fast loading issues, the load's built-in digital controller ensures minimal overshoot. The figure below shows the comparison of the current rise waveforms during full-speed loading between the AN236(F) Series load and a certain brand of electronic load.



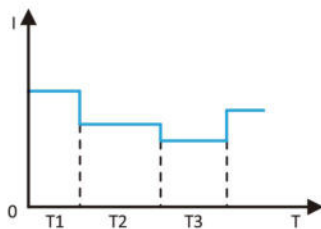
CV Mode - High-performance Controller with Adjustable Loop Speed

With the increasing application scenarios of constant current sources, the AN236(F) series load is equipped with an optimized zero-point compensation controller. While meeting the requirements for fast, stable, and accurate loading, it offers three adjustable loop speeds, greatly expanding the load's adaptability. Unlike the ordinary integral lag control, as shown in the figure on the right, there is a distinct predictive control section. The current waveform below shows the "prediction" of the tested power supply at the earliest time, enabling a rapid and stable CV loading process.



LIST Mode - Sequence Loading Function

The AN236(F) load features a built-in sequence test function that can edit up to 8 sets of data, with each set editable for 200 steps. Each step can be edited for execution time within the range of 0-100s. In scenarios such as battery discharge, server, and communication power mixed load modulation, providing different load current waveforms as an effective supplement for dynamic current tests.



High Precision Measurement

The AN236(F) series load offers three grade for voltage and current measurements. Taking the AN23606E-1200-240 as an example, it provides voltage ranges of 150V/600V/1,200V, catering to the needs of low, medium, and high voltage ranges. For current measurement, it offers 24A/120A/240A, providing more accurate measurement values for different application scenarios. Utilizing high-precision A/D and D/A chips, it supports accuracies of voltage 0.015%+0.015%F.S., current 0.04%+0.04%F.S., and power 0.1%+0.1%F.S.

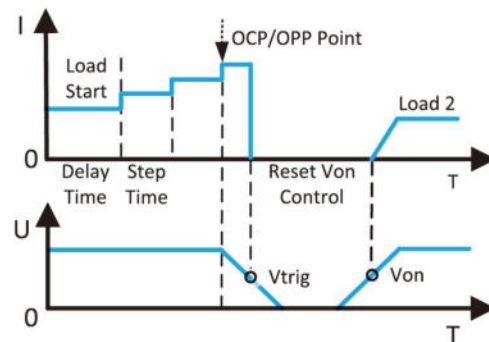
Instantaneous Overpower Function

The AN236(F) series load has an instant 2 times overpower capability, allowing the load to withstand a load capacity exceeding the rated power for a short period of time. This effectively solves the selection issue for impact-type products. Users can select based on the rated power of the power supply or battery, rather than the maximum power, which saves costs and improves adaptability.

Precisely Lock Power Protection Point

Too large output current/power of the source under test may cause damage. Therefore, most of the power sources under test have overcurrent/overpower protection: the output voltage is reduced or stopped when overloaded. So this kind of load provides test modes for this situation. Over Current Point, Over Power Point (OCP, OPP).

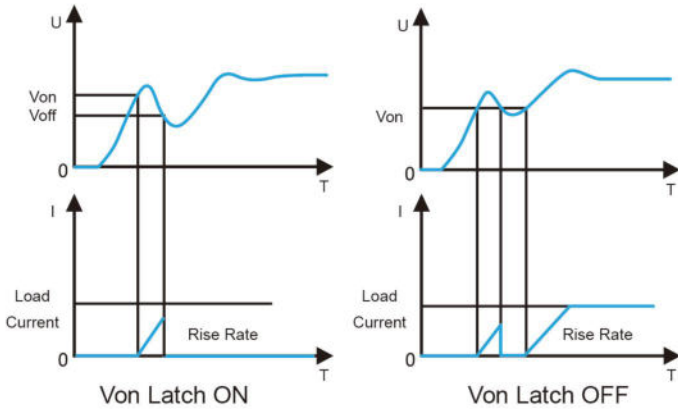
When the load detects that the voltage is less than or equal to the threshold after setting the loading current and the threshold, the loading stops, and the current power at the moment of protection is displayed on the screen, and the result is judged according to the protection point.



Von/Voff Function - Flexible Voltage Protection

During the power-on moment of the DUT (Device Under Test) when the output hasn't stabilized yet, immediate loading by the load can lead to the failure of the DUT's startup, risking voltage oscillations or damage to the DUT. Some DUTs cannot tolerate excessively low operating voltages, such as battery systems, where over-discharge can cause irreversible damage to the batteries. Therefore, the load provides a flexible automatic load and unload function - Von/Voff.

Once the voltage judgment is set, the load will remain unloaded when the voltage detected is lower than the Von voltage. It will start loading only when the voltage rises above the Von voltage, thus ensuring the startup voltage protection of the DUT. The automatic unload depends on the setting of Von Latch. If set to ON, the load unloads when the voltage is below Voff, and it won't load again. If set to OFF, the load unloads when the voltage is below Von, and it will reload when the voltage is higher than Von.



Visual Programming Software

Users can test by using the PC software programming load. It will be troublesome to set the series test (List) via load interface but can be set quickly via the graphical interface of the host, cooperated with the wave drawing, convenient for the testers. Over Current Point, Over Power Point (OCP, OPP), the host will store the test results and process data automatically, and generate a test result report.



Data Acquisition Function

Users can utilize the load's data acquisition function in conjunction with a trigger source to capture instantaneous voltage and current data.

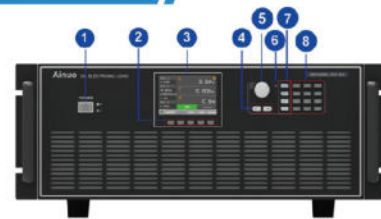
The upper computer software can then plot the data points into waveforms, and the test data can be exported to excel.

Sampling time: 1-40 microsecond; resolution: 1 microsecond; Number of sampling points: 1-1,024 (total number of sampling points);

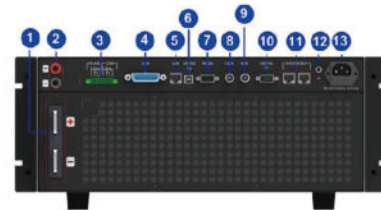
Trigger source: Load on/Load off/TTL/BUS/Manual.



Panel Instructions



| No. | Name | Description |
|-----|---------------------|---|
| ① | Power supply switch | AC power supply switch of the electronic load master unit |
| ② | F1-F5 Menu | F1-F5, shortcut menu |
| ③ | Display screen | Shows settings and measured data |
| ④ | Direction key | Left and right key |
| ⑤ | Knob | Used for moving cursor up and down and adjusting parameters |
| ⑥ | Tricolor light | Indicator light for load working status |
| ⑦ | Control button | LOAD、MENU、ESC、ENTER |
| ⑧ | Number key | Number keys 0-9 and undo key |



| No. | Name | Description |
|-----|-------------------|--|
| ① | DC load terminal | Load terminal |
| ② | Vsense terminal | Remote detection of power supply voltage |
| ③ | RS485&CAN | 485 Communication Interface, CAN Communication Interface |
| ④ | GPIB | GPIB Communication |
| ⑤ | LAN | Standard Ethernet Communication Interface |
| ⑥ | USB-B | Standard USB Communication Interface, PC Connectable |
| ⑦ | RS232 | Standard RS232 Communication Interface |
| ⑧ | I_Monitor | Load current waveform detection |
| ⑨ | V_Monitor | Load voltage waveform detection |
| ⑩ | Digital IO | Multiple input/output signals |
| ⑪ | Parallel terminal | Parallel connection port |
| ⑫ | Ground terminal | Connected to the ground |
| ⑬ | Power socket | Power supply input |

Specifications

| Model | | AN23602E -150-200(F) | AN23603E -150-300(F) | AN23604E -150-400(F) | AN23605E -150-500(F) | AN23606E -150-600(F) | AN23608E -150-800(F) | |
|--------------------------|---------------|--|--|---|--|--|---|--|
| Working range | Voltage | 0-150V | | | | | | |
| | Current | 0-200A | 0-300A | 0-400A | 0-500A | 0-600A | 0-800A | |
| | Power | 2kW | 3kW | 4kW | 5kW | 6kW | 8kW | |
| Minimum working voltage | | 1.8V@200A | 1.8V@300A | 1.8V@400A | 1.8V@500A | 1.8V@600A | 1.8V@800A | |
| Constant current loading | Range | 20/100/200A | 30/150/300A | 40/200/400A | 50/250/500A | 60/300/600A | 80/400/800A | |
| | Resolution | 0.2/1/2mA | 0.2/1/2mA | 0.4/2/4mA | 0.5/2/5mA | 0.5/2/5mA | 1/5/10mA | |
| | Accuracy | 0.05%+0.05%F.S. | | | | | | |
| Constant voltage loading | Range | 16/80/150V | | | | | | |
| | Resolution | 0.1/0.5/1mV | | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | | |
| Constant resistance load | Range | 15mΩ-150Ω(16V) 60mΩ-600Ω(80V) 1.5Ω-3000Ω(150V) | 10mΩ-100Ω(16V) 40mΩ-400Ω(80V) 1Ω-2000Ω(150V) | 7.5mΩ-75Ω(16V) 30mΩ-300Ω(80V) 0.75Ω-1500Ω(150V) | 5mΩ-50Ω(16V) 20mΩ-200Ω(80V) 0.5Ω-1000Ω(150V) | 5mΩ-50Ω(16V) 20mΩ-200Ω(80V) 0.5Ω-1000Ω(150V) | 3.8mΩ-37.5Ω(16V) 15mΩ-150Ω(80V) 0.375Ω-750Ω(150V) | |
| | Resolution | 2mA/Vsense | 2mA/Vsense | 4mA/Vsense | 5mA/Vsense | 5mA/Vsense | 10mA/Vsense | |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | | |
| Constant power loading | Range | 200/1000/2000W | 300/1500/3000W | 400/2000/4000W | 500/2500/5000W | 600/3000/6000W | 800/4000/8000W | |
| | Resolution | 5/20/50mW | 5/20/50mW | 10/50/100mW | 10/50/100mW | 10/50/100mW | 20/100/200mW | |
| | Accuracy | 0.2%+0.2%F.S. | | | | | | |
| Current change rate | Setting range | 0.2mA/us-2A/us (20A) | 0.2mA/us-3A/us (30A) | 0.4mA/us-4A/us (40A) | 0.5mA/us-5A/us (50A) | 0.5mA/us-6A/us (60A) | 1mA/us-8A/us (80A) | |
| | | 1mA/us-7A/us (100A) | 1mA/us-10.5A/us (150A) | 2mA/us-14A/us (200A) | 2mA/us-17.5A/us (250A) | 2mA/us-21A/us (300A) | 5mA/us-24A/us (400A) | |
| | | 2mA/us-14A/us (200A) | 2mA/us-21A/us (300A) | 4mA/us-28A/us (400A) | 5mA/us-35A/us (500A) | 5mA/us-42A/us (600A) | 10mA/us-48A/us (800A) | |
| Resolution | 0.2/1/2mA/us | 0.2/1/2mA/us | 0.4/2/4mA/us | 1/5/10mA/us | 0.5/2/5mA/us | 1/5/10 mA/us | | |
| Specification | Dimension | 426mm×177mm×600mm(W×H×D), The height can be increased by 201mm with detachable feet | | | | | 426 mm×400 mm ×650 mm (W×H×D) | |
| | Weight | 24.5kg | 29.5kg | 29.5kg | 35kg | 35kg | 61kg | |

Any changes to the above parameter specifications will not be notified separately.

| Model | | AN23610E -150-1000(F) | AN23612E -150-1200(F) | AN23615E -150-1500(F) | AN23618E -150-1800(F) | AN23620E -150-2000(F) | AN23624E -150-2400(F) |
|--------------------------|---------------|--|--|--|--|---|---|
| Working range | Voltage | 0-150V | | | | | |
| | Current | 0-1000A | 0-1200A | 0-1500A | 0-1800A | 0-2000A | 0-2400A |
| | Power | 10kW | 12kW | 15kW | 18kW | 20kW | 24kW |
| Minimum working voltage | | 1.8V@1000A | 1.8V@1200A | 1.8V@1500A | 1.8V@1800A | 1.8V@2000A | 1.8V@2400A |
| Constant current loading | Range | 100/500/1000A | 120/600/1200A | 150/750/1500A | 180/900/1800A | 200/1000/2000A | 240/1200/2400A |
| | Resolution | 1/5/10mA | 1/5/10mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA |
| | Accuracy | 0.05%+0.05%F.S. | | | | | |
| Constant voltage loading | Range | 16/80/150V | | | | | |
| | Resolution | 0.1/0.5/1mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 2.5mΩ-25Ω(16V) 10mΩ-100Ω(80V) 0.25Ω-500Ω(150V) | 2.5mΩ-25Ω(16V) 10mΩ-100Ω(80V) 0.25Ω-500Ω(150V) | 1.7mΩ-16.67Ω(16V) 6.7mΩ-66.67Ω(80V) 0.167Ω-333.34Ω(150V) | 1.7mΩ-16.67Ω(16V) 6.7mΩ-66.67Ω(80V) 0.167Ω-333.34Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) |
| | Resolution | 10mA/Vsense | 10mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | |
| Constant power loading | Range | 1000/5000/10000W | 1200/6000/12000W | 1500/7500/15000W | 1800/9000/18000W | 2000/10000/20000W | 2400/12000/24000W |
| | Resolution | 20/100/200mW | 20/100/200mW | 40/200/400mW | 40/200/400mW | 40/200/400mW | 100/500/1000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 1mA/us-10A/us (100A) | 1mA/us-12A/us (120A) | 2mA/us-15A/us (150A) | 2mA/us-18A/us (180A) | 2mA/us-20A/us (200A) | 2mA/us-24A/us (240A) |
| | | 5mA/us-27.5A/us (500A) | 5mA/us-30A/us (600A) | 10mA/us-32A/us (750A) | 10mA/us-36A/us (900A) | 10mA/us-40A/us (1000A) | 10mA/us-48A/us (1200A) |
| | | 10mA/us-55A/us (1000A) | 10mA/us-60A/us (1200A) | 20mA/us-64A/us (1500A) | 20mA/us-72A/us (1800A) | 20mA/us-80A/us (2000A) | 20mA/us-96A/us (2400A) |
| Resolution | 1/5/10 mA/us | 1/5/10 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | |
| Specification | Dimensions | 426 mm×400 mm×650 mm (W×H×D) | | 426 mm×532 mm×650 mm (W×H×D) | | 426 mm×665 mm×650 mm (W×H×D) | |
| | Weight | 66.5kg | 72kg | 92.5kg | 98kg | 113kg | 124kg |

Any changes to the above parameter specifications will not be notified separately.

Specifications

| Model | | AN23630E -150-2400(F) | AN23636E -150-2400(F) | AN23642E -150-2400(F) | AN23648E -150-2400(F) | AN23654E -150-2400(F) | AN23660E -150-2400(F) |
|--------------------------|---------------|---|---|---|---|---|---|
| Working range | Voltage | 0-150V | | | | | |
| | Current | 0-2400A | 0-2400A | 0-2400A | 0-2400A | 0-2400A | 0-2400A |
| | Power | 30kW | 36kW | 42kW | 48kW | 54kW | 60kW |
| Minimum working voltage | | 1.8V@2400A | 1.8V@2400A | 1.8V@2400A | 1.8V@2400A | 1.8V@2400A | 1.8V@2400A |
| Constant current loading | Range | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A |
| | Resolution | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA |
| | Accuracy | 0.05%+0.05%F.S. | | | | | |
| Constant voltage loading | Range | 16/80/150V | | | | | |
| | Resolution | 0.1/0.5/1mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) | 1.3mΩ-12.5Ω(16V) 5mΩ-50Ω(80V) 0.125Ω-250Ω(150V) |
| | Resolution | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%I.F.S. | | | | | |
| Constant power loading | Range | 3000/15000/30000W | 3600/18000/36000W | 4200/21000/42000W | 4800/24000/48000W | 5400/27000/54000W | 6000/30000/60000W |
| | Resolution | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 400/2000/4000mW | 400/2000/4000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 2mA/us-24A/us (240A) | 2mA/us-24A/us (240A) | 2mA/us-24A/us (240A) | 2mA/us-24A/us (240A) | 2mA/us-24A/us (240A) | 2mA/us-24A/us (240A) |
| | | 10mA/us-48A/us (1200A) | 10mA/us-48A/us (1200A) | 10mA/us-48A/us (1200A) | 10mA/us-48A/us (1200A) | 10mA/us-48A/us (1200A) | 10mA/us-48A/us (1200A) |
| | | 20mA/us-96A/us (2400A) | 20mA/us-96A/us (2400A) | 20mA/us-96A/us (2400A) | 20mA/us-96A/us (2400A) | 20mA/us-96A/us (2400A) | 20mA/us-96A/us (2400A) |
| | Resolution | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us | 2/10/20 mA/us |
| Specification | Dimensions | 610 mm×1410 mm ×800 mm (W×H×D) | 610 mm×1410mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1940 mm ×800 mm (W×H×D) | 610 mm×1720 mm ×800 mm (W×H×D) |
| | Weight | 205kg | 231kg | 272kg | 298kg | 435kg | 469kg |

Any changes to the above parameter specifications will not be notified separately.

| Model | | AN23602E -600-140(F) | AN23603E -600-210(F) | AN23604E -600-280(F) | AN23605E -600-350(F) | AN23606E -600-420(F) | AN23608E -600-560(F) |
|--------------------------|---------------|--|---|---|---|---|---|
| Working range | Voltage | 0-600V | | | | | |
| | Current | 0-140A | 0-210A | 0-280A | 0-350A | 0-420A | 0-560A |
| | Power | 2kW | 3kW | 4kW | 5kW | 6kW | 8kW |
| Minimum working voltage | | 14V@140A | 14V@210A | 14V@280A | 14V@350A | 14V@420A | 14V@560A |
| Constant current loading | Range | 14/70/140A | 21/105/210A | 28/140/280A | 35/175/350A | 42/210/420A | 56/280/560A |
| | Resolution | 0.2/1/2mA | 0.2/1/2mA | 0.4/2/4mA | 0.4/2/4mA | 0.4/2/4mA | 0.5/2/5mA |
| | Accuracy | 0.05%+0.05%F.S. | | | | | |
| Constant voltage loading | Range | 80/150/600V | | | | | |
| | Resolution | 0.5/1/5mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 0.15Ω-1500Ω(80V) 0.6Ω-6000Ω(150V) 6Ω-12000Ω(600V) | 0.1Ω-1000Ω(80V) 0.4Ω-4000Ω(150V) 4Ω-8000Ω(600V) | 75mΩ-750Ω(80V) 300mΩ-3000Ω(150V) 3Ω-6000Ω(600V) | 50mΩ-500Ω(80V) 200mΩ-2000Ω(150V) 2Ω-4000Ω(600V) | 50mΩ-500Ω(80V) 200mΩ-2000Ω(150V) 2Ω-4000Ω(600V) | 38mΩ-375Ω(80V) 150mΩ-1.5kΩ(150V) 1.5Ω-3kΩ(600V) |
| | Resolution | 2mA/Vsense | 2mA/Vsense | 4mA/Vsense | 4mA/Vsense | 4mA/Vsense | 5mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%I.F.S. | | | | | |
| Constant power loading | Range | 200/1000/2000W | 300/1500/3000W | 400/2000/4000W | 500/2500/5000W | 600/3000/6000W | 800/4000/8000W |
| | Resolution | 5/20/50mW | 5/20/50mW | 10/50/100mW | 10/50/100mW | 10/50/100mW | 20/100/200mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 0.2mA/us-0.6A/us (14A) | 0.2mA/us-0.9A/us (21A) | 0.4mA/us-1.2A/us (28A) | 0.4mA/us-1.5A/us (35A) | 0.4mA/us-1.8A/us (42A) | 0.5mA/us-1.8A/us (56A) |
| | | 1mA/us-3A/us (70A) | 1mA/us-4.5A/us (105A) | 2mA/us-6A/us (140A) | 2mA/us-7.5A/us (175A) | 2mA/us-9A/us (210A) | 2mA/us-9A/us (280A) |
| | | 2mA/us-6A/us (140A) | 2mA/us-9A/us (210A) | 4mA/us-12A/us (280A) | 4mA/us-15A/us (350A) | 4mA/us-18A/us (420A) | 5mA/us-18A/us (560A) |
| | Resolution | 0.2/1/2mA/us | 0.2/1/2mA/us | 0.4/2/4mA/us | 0.4/2/4mA/us | 0.4/2/4mA/us | 0.5/2/5mA/us |
| Specification | Dimensions | 426mm×177mm×600mm(W×H×D), The height can be increased by 201mm with detachable feet | | | | | 426 mm×400 mm ×650 mm (W×H×D) |
| | Weight | 24.5kg | 29.5kg | 29.5kg | 35kg | 35kg | 61kg |

Any changes to the above parameter specifications will not be notified separately.

Specifications

| Model | | AN23610E -600-700(F) | AN23612E -600-840(F) | AN23615E -600-1050(F) | AN23618E -600-1260(F) | AN23620E -600-1400(F) | AN23624E -600-1680(F) |
|--------------------------|----------------|--|--|--|--|---|---|
| Working range | Voltage | 0-600V | | | | | |
| | Current | 0-700A | 0-840A | 0-1050A | 0-1260A | 0-1400A | 0-1680A |
| | Power | 10kW | 12kW | 15kW | 18kW | 20kW | 24kW |
| Minimum working voltage | | 14V@700A | 14V@840A | 14V@1050A | 14V@1260A | 14V@1400A | 14V@1680A |
| Constant current loading | Range | 70/350/700A | 84/420/840A | 105/525/1050A | 128/630/1260A | 140/700/1400A | 168/840/1680A |
| | Resolution | 0.5/2.5/5mA | 1/5/10mA | 1/5/10mA | 1/5/10mA | 2/10/20mA | 2/10/20mA |
| | Accuracy | 0.05%+0.05%F.S. | | | | | |
| Constant voltage loading | Range | 80/150/600V | | | | | |
| | Resolution | 0.5/1/5mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 25mΩ-250Ω(80V) 0.1Ω-1000Ω(150V) 1Ω-2000Ω(600V) | 25mΩ-250Ω(80V) 0.1Ω-1000Ω(150V) 1Ω-2000Ω(600V) | 17mΩ-166.67Ω(80V) 67Ω-666.67Ω(150V) 0.67Ω-1333.34Ω(600V) | 17mΩ-166.67Ω(80V) 67Ω-666.67Ω(150V) 0.67Ω-1333.34Ω(600V) | 13mΩ-125Ω(80V) 50mΩ-500Ω(150V) 0.5Ω-1000Ω(600V) | 13mΩ-125Ω(80V) 50mΩ-500Ω(150V) 0.5Ω-1000Ω(600V) |
| | Resolution | 5mA/Vsense | 10mA/Vsense | 10mA/Vsense | 10mA/Vsense | 20mA/Vsense | 20mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | |
| Constant power loading | Range | 1000/5000/10000W | 1200/6000/12000W | 1500/7500/15000W | 1800/9000/18000W | 2000/10000/20000W | 2400/12000/24000W |
| | Resolution | 20/100/200mW | 20/100/200mW | 40/200/400mW | 40/200/400mW | 100/500/1000mW | 100/500/1000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 0.5mA/us-2.1A/us (70A) | 1mA/us-2.4A/us (84A) | 1mA/us-2.7A/us (105A) | 1mA/us-3A/us (128A) | 2mA/us-3.3A/us (140A) | 2mA/us-3.6A/us (168A) |
| | | 2.5mA/us-10.5A/us (350A) | 5mA/us-12A/us (420A) | 5mA/us-13.5A/us (525A) | 5mA/us-15A/us (630A) | 10mA/us-16.5A/us (700A) | 10mA/us-18A/us (840A) |
| | | 5mA/us-21A/us (700A) | 10mA/us-24A/us (840A) | 10mA/us-27A/us (1050A) | 10mA/us-30A/us (1260A) | 20mA/us-33A/us (1400A) | 20mA/us-36A/us (1680A) |
| Resolution | 0.5/2.5/5mA/us | 1/5/10mA/us | 1/5/10mA/us | 1/5/10mA/us | 2/10/20mA/us | 2/10/20mA/us | |
| Specification | Dimensions | 426 mm×400 mm×650 mm (W×H×D) | | 426 mm×532 mm×650 mm (W×H×D) | | 426 mm×665 mm×650 mm (W×H×D) | |
| | Weight | 66.5kg | 72kg | 92.5kg | 98kg | 113kg | 124kg |

Any changes to the above parameter specifications will not be notified separately.

| Model | | AN23630E -600-2100(F) | AN23636E -600-2400(F) | AN23642E -600-2400(F) | AN23648E -600-2400(F) | AN23654E -600-2400(F) | AN23660E -600-2400(F) |
|--------------------------|---------------|--|--|--|--|--|--|
| Working range | Voltage | 0-600V | | | | | |
| | Current | 0-2100A | 0-2400A | 0-2400A | 0-2400A | 0-2400A | 0-2400A |
| | Power | 30kW | 36kW | 42kW | 48kW | 54kW | 60kW |
| Minimum working voltage | | 14V@2100A | 14V@2400A | 14V@2400A | 14V@2400A | 14V@2400A | 14V@2400A |
| Constant current loading | Range | 210/1050/2100A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A | 240/1200/2400A |
| | Resolution | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA |
| | Accuracy | 0.05%+0.05%F.S. | | | | | |
| Constant voltage loading | Range | 80/150/600V | | | | | |
| | Resolution | 0.5/1/5mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 10mΩ-100Ω(80V) 40mΩ-400Ω(150V) 0.4Ω-800Ω(600V) | 9mΩ-87.5Ω(80V) 4mΩ-350Ω(150V) 0.35Ω-700Ω(600V) | 9mΩ-87.5Ω(80V) 4mΩ-350Ω(150V) 0.35Ω-700Ω(600V) | 9mΩ-87.5Ω(80V) 4mΩ-350Ω(150V) 0.35Ω-700Ω(600V) | 9mΩ-87.5Ω(80V) 4mΩ-350Ω(150V) 0.35Ω-700Ω(600V) | 9mΩ-87.5Ω(80V) 4mΩ-350Ω(150V) 0.35Ω-700Ω(600V) |
| | Resolution | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | |
| Constant power loading | Range | 3000/15000/30000W | 3600/18000/36000W | 4200/21000/42000W | 4800/24000/48000W | 5400/27000/54000W | 6000/30000/60000W |
| | Resolution | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 400/2000/4000mW | 400/2000/4000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 2mA/us-3.6A/us (210A) | 2mA/us-3.6A/us (240A) | 2mA/us-3.6A/us (240A) | 2mA/us-3.6A/us (240A) | 2mA/us-3.6A/us (240A) | 2mA/us-3.6A/us (240A) |
| | | 10mA/us-18A/us (1050A) | 10mA/us-18A/us (1200A) | 10mA/us-18A/us (1200A) | 10mA/us-18A/us (1200A) | 10mA/us-18A/us (1200A) | 10mA/us-18A/us (1200A) |
| | | 20mA/us-36A/us (2100A) | 20mA/us-36A/us (2400A) | 20mA/us-36A/us (2400A) | 20mA/us-36A/us (2400A) | 20mA/us-36A/us (2400A) | 20mA/us-36A/us (2400A) |
| Resolution | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | |
| Specification | Dimensions | 610 mm×1410 mm ×800 mm (W×H×D) | 610 mm×1410 mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1940 mm ×800 mm (W×H×D) | 610 mm×1720 mm ×800 mm (W×H×D) |
| | Weight | 205kg | 231kg | 272kg | 298kg | 435kg | 469kg |

Any changes to the above parameter specifications will not be notified separately.

Safety Analyzer
AC Power Supply
DC Power Supply
Motor Test Scheme
Power Analyzer
Electronic Load

Specifications

| Model | | AN23602E -1200-80(F) | AN23603E -1200-120(F) | AN23604E -1200-160(F) | AN23605E -1200-200(F) | AN23606E -1200-240(F) | AN23608E -1200-320(F) | |
|--------------------------|----------------|--|---|--|---|---|---|--|
| Working range | Voltage | 0-1200V | | | | | | |
| | Current | 0-80A | 0-120A | 0-160A | 0-200A | 0-240A | 0-320A | |
| | Power | 2kW | 3kW | 4kW | 5kW | 6kW | 8kW | |
| Minimum working voltage | | 20V@80A | 20V@120A | 20V@160A | 20V@200A | 20V@240A | 20V@320A | |
| Constant current loading | Range | 8/40/80A | 12/60/120A | 16/80/160A | 20/100/200A | 24/120/240A | 32/160/320A | |
| | Resolution | 0.1/0.5/1mA | 0.1/0.5/1mA | 0.2/1/2mA | 0.2/1/2mA | 0.2/1/2mA | 0.4/2/4mA | |
| | Accuracy | 0.04%+0.06%F.S. | | | | | | |
| Constant voltage loading | Range | 150/600/1200V | | | | | | |
| | Resolution | 1/5/10mV | | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | | |
| Constant resistance load | Range | 0.3Ω-3kΩ(150V) 1.2Ω-12kΩ(600V) 30Ω-60kΩ(1200V) | 0.2Ω-2kΩ(150V) 0.8Ω-8kΩ(600V) 20Ω-40kΩ(1200V) | 0.15Ω-1.5kΩ(150V) 0.6Ω-6kΩ(600V) 15Ω-30kΩ(1200V) | 0.1Ω-1kΩ(150V) 0.4Ω-4kΩ(600V) 10Ω-20kΩ(1200V) | 0.1Ω-1kΩ(150V) 0.4Ω-4kΩ(600V) 10Ω-20kΩ(1200V) | 75mΩ-0.75kΩ(150V) 0.3Ω-3kΩ(600V) 7.5Ω-15kΩ(1200V) | |
| | Resolution | 1mA/Vsense | 1mA/Vsense | 2mA/Vsense | 2mA/Vsense | 2mA/Vsense | 4mA/Vsense | |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | | |
| Constant power loading | Range | 200/1000/2000W | 300/1500/3000W | 400/2000/4000W | 500/2500/5000W | 600/3000/6000W | 800/4000/8000W | |
| | Resolution | 5/20/50mW | 5/20/50mW | 10/50/100mW | 10/50/100mW | 10/50/100mW | 20/100/200mW | |
| | Accuracy | 0.2%+0.2%F.S. | | | | | | |
| Current change rate | Setting range | 0.1mA/us-0.4A/us (8A) | 0.1mA/us-0.6A/us (12A) | 0.2mA/us-0.8A/us (16A) | 0.2mA/us-1A/us (20A) | 0.2mA/us-1.2A/us (24A) | 0.4mA/us-1.2A/us (32A) | |
| | | 0.5mA/us-2A/us (40A) | 0.5mA/us-3A/us (60A) | 1mA/us-4A/us (80A) | 1mA/us-5A/us (100A) | 1mA/us-6A/us (120A) | 2mA/us-6A/us (160A) | |
| | | 1mA/us-4A/us (80A) | 1mA/us-6A/us (120A) | 2mA/us-8A/us (160A) | 2mA/us-10A/us (200A) | 2mA/us-12A/us (240A) | 4mA/us-12A/us (320A) | |
| Resolution | 0.1/0.5/1mA/us | 0.1/0.5/1mA/us | 0.2/1/2mA/us | 0.2/1/2mA/us | 0.2/1/2mA/us | 0.4/2/4mA/us | | |
| Specification | Dimensions | 426mm×177mm×600mm(W×H×D), The height can be increased by 201mm with detachable feet | | | | | 426 mm×400 mm ×650 mm (W×H×D) | |
| | Weight | 24.5kg | 29.5kg | 29.5kg | 35kg | 35kg | 61kg | |

Any changes to the above parameter specifications will not be notified separately.

| Model | | AN23610E -1200-400(F) | AN23612E -1200-480(F) | AN23615E -1200-600(F) | AN23618E -1200-720(F) | AN23620E -1200-800(F) | AN23624E -1200-960(F) |
|--------------------------|---------------|--|--|--|--|--|--|
| Working range | Voltage | 0-1200V | | | | | |
| | Current | 0-400A | 0-480A | 0-600A | 0-720A | 0-800A | 0-960A |
| | Power | 10kW | 12kW | 15kW | 18kW | 20kW | 24kW |
| Minimum working voltage | | 20V@400A | 20V@480A | 20V@600A | 20V@720A | 20V@800A | 20V@960A |
| Constant current loading | Range | 40/200/400A | 48/240/480A | 60/300/600A | 72/360/720A | 80/400/800A | 96/480/960A |
| | Resolution | 0.4/2/4mA | 0.5/2/5mA | 0.5/2/5mA | 0.5/2/5mA | 1/5/10mA | 1/5/10mA |
| | Accuracy | 0.04%+0.06%F.S. | | | | | |
| Constant voltage loading | Range | 150/600/1200V | | | | | |
| | Resolution | 1/5/10mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 50mΩ-0.5kΩ(150V) 0.2Ω-2kΩ(600V) 5Ω-10kΩ(1200V) | 50mΩ-0.5kΩ(150V) 0.2Ω-2kΩ(600V) 5Ω-10kΩ(1200V) | 34mΩ-0.34kΩ(150V) 0.14Ω-1.34kΩ(600V) 3.34Ω-6.67kΩ(1200V) | 34mΩ-0.34kΩ(150V) 0.14Ω-1.34kΩ(600V) 3.34Ω-6.67kΩ(1200V) | 25mΩ-0.25kΩ(150V) 0.1Ω-1kΩ(600V) 2.5Ω-5kΩ(1200V) | 25mΩ-0.25kΩ(150V) 0.1Ω-1kΩ(600V) 2.5Ω-5kΩ(1200V) |
| | Resolution | 4mA/Vsense | 5mA/Vsense | 5mA/Vsense | 5mA/Vsense | 10mA/Vsense | 10mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%IF.S. | | | | | |
| Constant power loading | Range | 1000/5000/10000W | 1200/6000/12000W | 1500/7500/15000W | 1800/9000/18000W | 2000/10000/20000W | 2400/12000/24000W |
| | Resolution | 20/100/200mW | 20/100/200mW | 40/200/400mW | 40/200/400mW | 100/500/1000mW | 100/500/1000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 0.4mA/us-1.4A/us (40A) | 0.4mA/us-1.6A/us (48A) | 0.5mA/us-1.8A/us (60A) | 0.5mA/us-2A/us (72A) | 1mA/us-2.2A/us (80A) | 1mA/us-2.4A/us (96A) |
| | | 2mA/us-7A/us (200A) | 2mA/us-8A/us (240A) | 2mA/us-9A/us (300A) | 2mA/us-10A/us (360A) | 5mA/us-11A/us (400A) | 5mA/us-12A/us (480A) |
| | | 4mA/us-14A/us (400A) | 4mA/us-16A/us (480A) | 5mA/us-18A/us (600A) | 5mA/us-20A/us (720A) | 10mA/us-22A/us (800A) | 10mA/us-24A/us (960A) |
| Resolution | 0.4/2/4mA/us | 0.4/2/4mA/us | 0.5/2/5mA/us | 0.5/2/5mA/us | 1/5/10mA/us | 1/5/10mA/us | |
| Specification | Dimensions | 426 mm×400 mm ×650 mm(W×H×D) | | 426 mm×532 mm ×650 mm(W×H×D) | | 426 mm×665 mm ×650 mm(W×H×D) | |
| | Weight | 66.5kg | 72kg | 92.5kg | 98kg | 113kg | 124kg |

Any changes to the above parameter specifications will not be notified separately.

Specifications

| Model | | AN23630E -1200-1200(F) | AN23636E -1200-1440(F) | AN23642E -1200-1680(F) | AN23648E -1200-1920(F) | AN23654E -1200-2160(F) | AN23660E -1200-2400(F) |
|--------------------------|---------------|---|---|---|---|---|---|
| Working range | Voltage | 0-1200V | | | | | |
| | Current | 0-1200A | 0-1440A | 0-1680A | 0-1920A | 0-2160A | 0-2400A |
| | Power | 30kW | 36kW | 42kW | 48kW | 54kW | 60kW |
| Minimum working voltage | | 20V@1200A | 20V@1440A | 20V@1680A | 20V@1920A | 20V@2160A | 20V@2400A |
| Constant current loading | Range | 120/600/1200A | 144/720/1440A | 168/840/1680A | 192/960/1920A | 216/1080/2160A | 240/1200/2400A |
| | Resolution | 1/5/10mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA | 2/10/20mA |
| | Accuracy | 0.04%+0.06%F.S. | | | | | |
| Constant voltage loading | Range | 150/600/1200V | | | | | |
| | Resolution | 1/5/10mV | | | | | |
| | Accuracy | 0.025%+0.025%F.S. | | | | | |
| Constant resistance load | Range | 20mΩ-0.2kΩ(150V) 80mΩ-0.8kΩ(600V) 2Ω-4kΩ(1200V) | 17mΩ-0.17kΩ(150V) 67mΩ-0.67kΩ(600V) 1.67Ω-3.33kΩ(1200V) | 14mΩ-0.14kΩ(150V) 57mΩ-0.57kΩ(600V) 1.43Ω-2.86kΩ(1200V) | 13mΩ-0.13kΩ(150V) 50mΩ-0.5kΩ(600V) 1.25Ω-2.5kΩ(1200V) | 11mΩ-0.11kΩ(150V) 44mΩ-0.44kΩ(600V) 1.11Ω-2.22kΩ(1200V) | 10mΩ-0.1kΩ(150V) 40mΩ-0.4kΩ(600V) 1Ω-2kΩ(1200V) |
| | Resolution | 10mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense | 20mA/Vsense |
| | Accuracy | Vin/Rset*(0.2%)+0.2%I.F.S. | | | | | |
| Constant power loading | Range | 3000/15000/30000W | 3600/18000/36000W | 4200/21000/42000W | 4800/24000/48000W | 5400/27000/54000W | 6000/30000/60000W |
| | Resolution | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 200/1000/2000mW | 400/2000/4000mW | 400/2000/4000mW |
| | Accuracy | 0.2%+0.2%F.S. | | | | | |
| Current change rate | Setting range | 1mA/us-2.4A/us (120A) | 2mA/us-2.4A/us (144A) | 2mA/us-2.4A/us (168A) | 2mA/us-2.4A/us (192A) | 2mA/us-2.4A/us (216A) | 2mA/us-2.4A/us (240A) |
| | | 5mA/us-12A/us (600A) | 10mA/us-12A/us (720A) | 10mA/us-12A/us (840A) | 10mA/us-12A/us (960A) | 10mA/us-12A/us (1080A) | 10mA/us-12A/us (1200A) |
| | | 10mA/us-24A/us (1200A) | 20mA/us-24A/us (1440A) | 20mA/us-24A/us (1680A) | 20mA/us-24A/us (1920A) | 20mA/us-24A/us (2160A) | 20mA/us-24A/us (2400A) |
| Resolution | 1/5/10mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | 2/10/20mA/us | |
| Specification | Dimensions | 610 mm×1410mm ×800 mm (W×H×D) | 610 mm×1410mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1762 mm ×800 mm (W×H×D) | 610 mm×1940 mm ×800 mm (W×H×D) | 610 mm×1720 mm ×800 mm (W×H×D) |
| | Weight | 205kg | 231kg | 272kg | 298kg | 435kg | 469kg |

Any changes to the above parameter specifications will not be notified separately.

| Model | Common Parameters | | |
|---------------------------------|-------------------|---|---------------|
| Voltage | 150V | 600V | 1200V |
| Composite Impedance | Range | LS: 0.1uH~20uH RS: 30mΩ~20Ω CL: 30uF~50000uF RL: Consistent with CR mode high grade | |
| | Resolution | LS: 0.1uH RS: 1 mΩ CL: 1uF RL: Consistent with CR mode high grade | |
| LED Test | Range | coeff: 0.01~1 | |
| Battery Test | Discharge Time | 1s~100000s | |
| | Resolution | 1s | |
| Current Dynamics | T1&T2 | 0.020~99.999ms/100ms~99999ms | |
| | Resolution | 1us/1ms | |
| | Accuracy | 2us+100ppm | |
| | Minimum Rise Time | 10us(Typical) | 20us(Typical) |
| Current Measurement | Range, Resolution | Same as current loading | |
| | Accuracy | 0.04%+0.04%F.S. | |
| Voltage Measurement | Range, Resolution | Same as voltage loading | |
| | Accuracy | 0.015%+0.015%F.S. | |
| Input Resistance | 800kΩ(Typical) | 1MΩ(Typical) | 2MΩ(Typical) |
| Power Measurement | Range, Resolution | Same as power loading | |
| | Accuracy | 0.1%+0.1%I.F.S.*U.F.S. | |
| Operating Temperature, Humidity | | 0 ~ 40 C, 20-90%RH | |
| Temperature Coefficient | | 100ppm/ C (Typical) | |

Any changes to the above parameter specifications will not be notified separately.