Lower Power DC Power Supply
AN50(F) Series

Programmable DC Power Supply
AN51(F) Series

Wide Range Programmable DC Power Supply
AN53(F) Series

Bidirectional Programmable DC Power Supply
ANEVH(F) Series

High Power Bidirectional DC Power Supply
ANEVT(F) Series

Dual-channel Bidirectional DC Power Supply
ANEVT DA(F) Series

Battery Simulator
ANEVS(F) Series

Dual-channel Battery Simulator
ANEVS DA(F) Series

Lower Power DC Power Supply
AN50(F) Series

Product Introduction

The AN50(F) lower-power series DC power supply adopts high-frequency PWM control and phase-shifted full-bridge conversion, fast dynamic response, strong overcurrent capability, low output ripple, featuring compact, light, quiet, high efficiency, simple operation and cost-effective. It can be used for manufacturing, testing and maintenance of military electronic equipment such as motors, power tools, automotive electronics, switching coils and DC switches, aircraft and airborne equipment, radar, navigation, etc., as well as industrial and mining enterprises, colleges and universities laboratories, research institute, etc.

Features

- 350mm deep full range of standard chassis, suitable for system integration and portable applications.
- High frequency PWM and full-bridge conversion technology, with high efficiency.
- Strong current/power overload capacity, up to 110%.
- Exceptional output stability.
- Voltage drop compensation terminal for large current output.
- Complete protection to ensure normal operation of power supply unit and load security.
- LED segment display. Clear, convenient for operation.
- Serial/parallel output, convenient expansion.
- Powerful programmable features to meet various testing needs.
- Supports SCPI/MODBUS-RTU standard protocol.

Order and extensions

- AN5010-100(F): 10V/100A/1kW
- AN5035-30(F): 35V/30A/1kW
- AN5035-50(F): 35V/50A/1.5kW
- AN5035-100(F): 35V/100A/3kW
- AN5060-25(F): 60V/25A/1.5kW
- AN5060-50(F): 60V/50A/3kW
- AN50120-12(F): 120V/12.5A/1.5kW
- AN50120-25(F): 120V/25A/3kW
- AN50300-5(F): 300V/5A/1.5kW
- AN50300-10(F): 300V/10A/3kW

Specifications

Model		AN5010-100(F)	AN5035-30(F)	AN5035-50(F)	AN5035-100(F)	AN5060-25(F)	AN5060-50(F)
Input		Single phase，220V±22V，47-63Hz					
Output	Voltage	0～10V	0～35V			0～60V	
	Current	0～100A	0～30A	0～50A	0～100A	0～25A	0～50A
	Power	0～1000W	0～1000W	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/ Accuracy	Voltage	Resolution：0.001V（≥10V，0.01V），Accuracy≤0.4%Umax					
	Current	Resolution：0.001A（≥10A，0.01A），Accuracy≤0.5%Imax					
Ripple and Noise 20Hz~20MHz	Vrms	30mV				60mV	
	Vpp	200mV				300mV	
Effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax					
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax					
Transient response time		≤5ms					
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1s					
Max output voltage drop compensation		2V					
Communication		RS-232（Standard）/485(Optional)					
Protection		Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reverse protection					
Analog interface(optional)		Start、stop、alarm、0-5V/ 0-10V or 4-20mA analog control output					
Environment		Temperature：0～40℃；Humidity：20～90%RH					
Dimension W×H×D(mm)		210×133×325		440×133×350			
Weight		6kg		9kg	12kg	9kg	12kg

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

Model		AN50120-12(F)	AN50120-25(F)	AN50300-5(F)	AN50300-10(F)
Input		Single phase，220V±22V，47-63Hz			
Output	Voltage	0～120V		0～300V	
	Current	0～12.5A	0～25A	0～5A	0～10A
	Power	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/ Accuracy	Voltage	Resolution 0.001V/0.01V/0.1V，Accuracy≤0.4%Umax			
	Current	Resolution 0.001A/0.01A，Accuracy≤0.5%Imax			
Ripple and Noise 20Hz~20MHz	Vrms	80mV		100mV	
	Vpp	400mV		500mV	
Load effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax			
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax			
Transient response time		≤5ms			
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1s			
Max output voltage drop compensation		10V			
Communication		RS-232（Standard）/485(Optional)			
Protection		Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reverse protection			
Analog interface(optional)		Start、stop、alarm、0-5V/ 0-10V or 4-20mA analog control output			
Environment		Temperature：0～40℃；Humidity：20～90%RH			
Dimension W×H×D(mm)		440×133×350			
Weight		9kg	12kg	9kg	12kg

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

Programmable DC Power Supply
AN51(F) Series

Product Introduction

The AN51(F) low-power series DC power supply adopts high-frequency PWM control and phase-shifted full-bridge conversion, fast dynamic response, strong over-current capability, low output ripple, featuring compact, light, quiet, high efficiency, simple operation and cost-effective. It can be used for manufacturing, testing and maintenance of military electronic equipment such as motors, power tools, automotive electronics, chips and electronic components, switching coils and DC switches, aircraft and airborne equipment, radar, navigation, etc., as well as industrial and mining enterprises, colleges and universities laboratories, research institute, etc.

Features

- Colorful LCD display, digital keys, Convenient and easy for operation.
- 350mm deep full range of standard chassis, suitable for system integration and portable applications.
- High frequency PWM and full-bridge conversion technology, with high efficiency.
- Strong current/power overload capacity, up to 110%.
- Exceptional output stability.
- Voltage drop compensation terminal for large current output.
- Complete protection to ensure normal operation of power supply unit and load security.

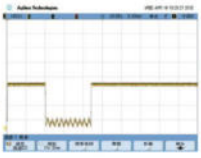
Order and extensions

- AN5135-50(F): 35V/50A/1.5kW
- AN5135-100(F): 35V/100A/3kW
- AN5160-25(F): 60V/25A/1.5kW
- AN5160-50(F): 60V/50A/3kW
- AN51120-12(F): 120V/12.5A/1.5kW
- AN51120-25(F): 120V/25A/3kW
- AN51300-5(F): 300V/5A/1.5kW
- AN51300-10(F): 300V/10A/3kW

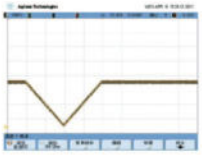
- Powerful programming features to customize the output waveform.

Simulation battery supply voltage transient drop test

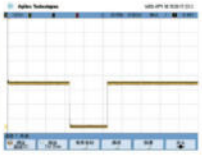
ISO 16750-2 Voltage drop reset test curve



ISO 16750-2 Voltage start test curve



Simulation battery slow drop and slow rise voltage supply test



Communication power input transient drop test

Output voltage climb slope control

Specifications

Model		AN5135-50(F)	AN5135-100(F)	AN5160-25(F)	AN5160-50(F)
Input		Single phase，220V±22V，47-63Hz			
Output	Voltage	0～35V		0～60V	
	Current	0～50A	0～100A	0～25A	0～50A
	Power	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/ Accuracy	Voltage	Resolution 0.01V，Accuracy≤0.2%Umax			
	Current	Resolution 0.01A，Accuracy≤0.35%Imax			
Ripple and Noise 20Hz~20MHz	Vrms	30mV		60mV	
	Vpp	200mV		300mV	
Effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax			
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax			
Transient response time		≤5ms（50%-100%，or 100%-50%，error returns to 0.75% of stable value）			
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1S			
Communication		RS-232（Standard）/485(Optional) / Analog interface（Optional）			
Protection		Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reversal protection			
List test function (Optional)		Capable of storing 50 sequences, each sequence contains 20 steps, each step of the function can be set independently, a total of 13 independent functions.			
Environment		Temperature：0～40℃；Humidity：20～90%RH			
Dimension W×H×D(mm)		440×133×350			
Weight		9kg	13.5kg	9kg	13.5kg

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

Model		AN51120-12(F)	AN51120-25(F)	AN51300-5(F)	AN51300-10(F)
Input		Single phase，220V±22V，47-63Hz			
Output	Voltage	0～120V		0～300V	
	Current	0～12.5A	0～25A	0～5A	0～10A
	Power	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/ Accuracy	Voltage	Resolution：0.1V/0.01V，Accuracy≤0.2%Umax			
	Current	Resolution：0.01A，Accuracy≤0.35%Imax		Resolution：0.001A，Accuracy≤0.35%Imax	
Ripple and Noise 20Hz~20MHz	Vrms	80mV		100mV	
	Vpp	400mV		500mV	
Effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax			
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax			
Transient response time		≤5ms（50%-100%，or 100%-50%，error returns to 0.75% of stable value）			
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1S			
Communication		RS-232（Standard）/485(Optional) / Analog interface（Optional）			
Protection		Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reversal protection			
List test function (Optional)		Capable of storing 50 sequences, each sequence contains 20 steps, each step of the function can be set independently, a total of 13 independent functions.			
Environment		Temperature：0～40℃；Humidity：20～90%RH			
Dimension W×H×D(mm)		440×133×350			
Weight		9kg	13.5kg	9kg	13.5kg

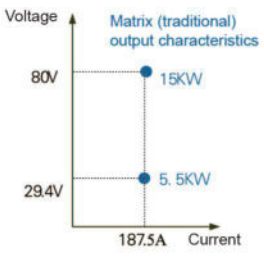
Any changes to the above parameter specifications will not be notified separately.

Wide Range Programmable DC Power Supply
AN53(F) Series

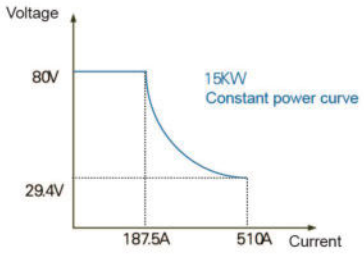
Product Introduction

The AN53(F) Series Wide Range Programmable DC Power Supply adopts active power factor correction technology and high-frequency LLC multi-resonant soft switching inverter technology. It features high power factor, fast dynamic response, low output ripple, and high power density. It has the characteristic performance of constant power wide-range output, as well as advantages such as small size, light weight, low noise, high efficiency, and simple operation.

The AN53(F) Series expands the power output curve, providing users with a wider range of voltage and current combinations, making it more flexible than traditional "matrix" output range power supplies. The output range of a single constant power DC power supply may be several times that of a conventional rectangular power supply. For example, the AN53(F) Series 1500V/40A/5kW model can provide an output of 1500V 10A at 15kW power, or 375V 40A output. In comparison, for a traditional "matrix" output power supply, the output specification is 1500V/10A/15kW, and when the output voltage is 375V, the maximum current is still 10A, with a power of only 3.75kW.



Common "matrix" power output



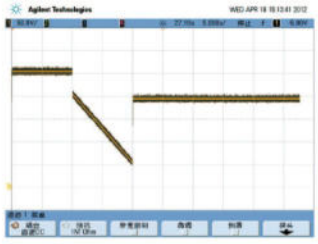
AN53 series power output

The AN53(F) Series simulates the output characteristics of solar batteries, with fast response, stable and accurate I-V curve simulation capability. It comes with built-in standard models such as SAS, EN50530, and Sandia lab for single unit operation, allowing precise simulation of photovoltaic I-V curves. Additionally, users can edit the parameters of solar battery panels through upper computer software or download a set of 1024-point V&I data into the power supply for operation, supporting dynamic, shading, and other operation modes.

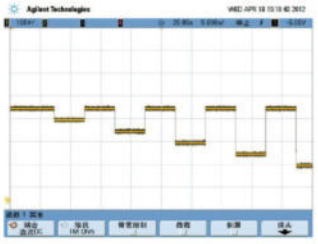
As a programmable power supply, the AN53(F) Series supports multiple communication interfaces and complies with the SCPI standard protocol, making it easy to understand and program control.

Features

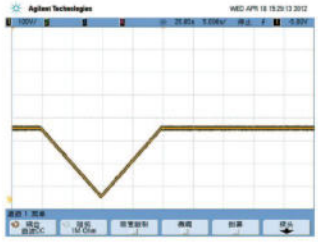
- It has the wide-range output capability, expanding the output range to 3 times that of "matrix" power supplies at the same power level.
- It utilizes active power factor correction technology, with full load power factor exceeding 0.99.
- It uses high-frequency LLC multi-resonant inversion, achieving a high overall efficiency of up to 0.95.
- It boasts the industry's best transient response speed.
- It features three working modes: constant voltage, constant current, and constant power, meeting a wide range of test requirements.
- It has powerful programmable functions and flexible settings.



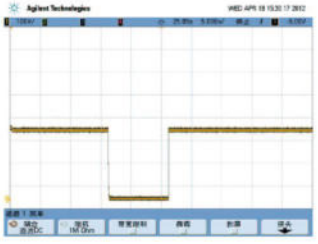
Simulation Battery Supply Voltage Sudden Drop Test



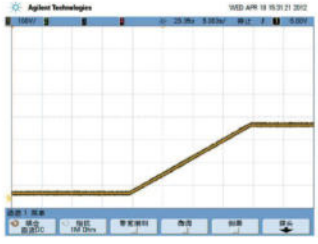
ISO16750-2 Voltage Reduction Reset Test Curve



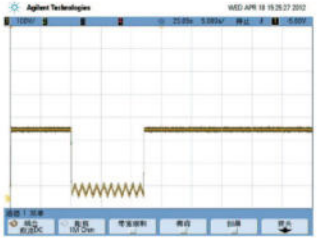
Simulation Battery Slow Drop and Slow Rise Supply Voltage Test



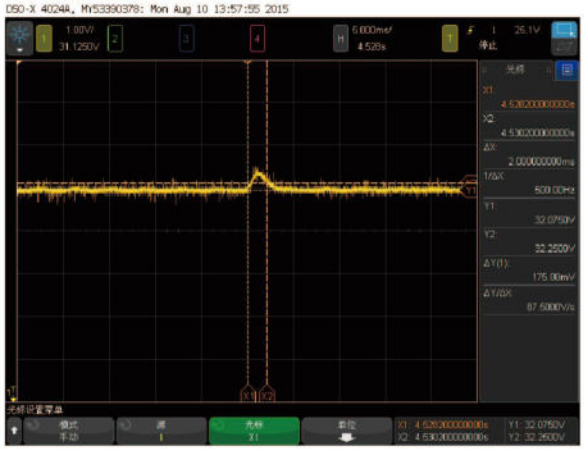
Communication Power Supply Input Sudden Drop Test



Output Voltage Rise Rate Test



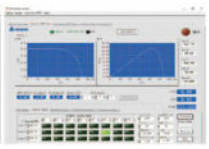
ISO16750-2 Startup Voltage Curve Test



Photovoltaic Simulation Function

SAS Model Interface

Photovoltaic SAS Simulation Function

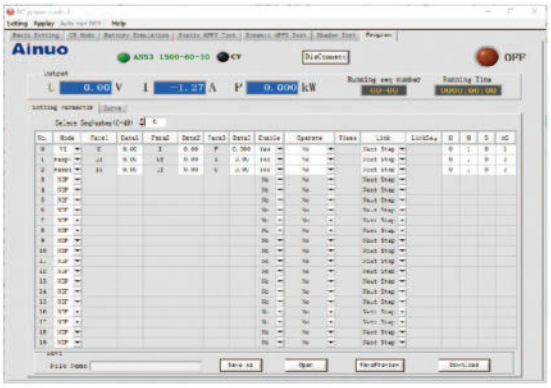


SandiaLab Model

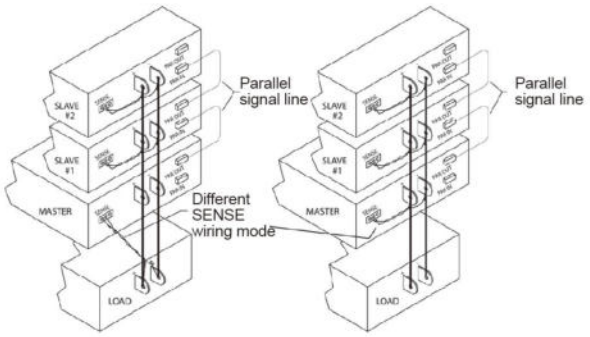
EN50530 Model Interface

Dynamic MPPT

EN50530 Dynamic Simulation



- Built-in precise voltage and current measurement, excellent output stability.
- Lead drop compensation terminal to compensate for lead drop compensation during high current operation.
- Comprehensive protection functions to ensure the normal operation of power supply equipment and the safety of loads.
- High-brightness color LCD with exquisite appearance and simple and intuitive operation.
- It supports multiple units for parallel output to expand power/current range.



Multiple equipment can be flexibly configured as single output or parallel output

Specifications

Model		AN5380-120S(F)	AN5380-170S(F)	AN5380-170(F)	AN5380-340(F)	AN5380-510(F)
Input	Voltage	Single phase+PE, 198V-242VAC		Three-phase three-wire+PE, 340V-420VAC		
	Frequency	47-63Hz				
Output	Voltage	0-80V				
	Current	0-120A	0-170A	0-170A	0-340A	0-510A
	Power	0-1.8KW	0-3KW	0-5KW	0-10KW	0-15KW
Display mode		4.3-inch color LCD				
Measurement error (readback accuracy)	Voltage	≤0.05%Umax, resolution 0.01V				
	Current	≤0.1%Imax, resolution 0.01A (>1000A, 0.1A)				
	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)				
Ripple and Noise 20Hz-20MHz	Vrms	30mV		40mV		
	Vpp	200mV		250mV		
Load effect		Voltage≤0.01%Umax, current≤0.05%Imax				
Power effect		Voltage≤0.01%Umax, current≤0.01%Imax				
Transient response time		≤2ms				
Rise time		30ms (10%-90%)				
Maximum lead drop compensation		6.5V				
Communication control interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB				
Protection functions		Input undervoltage protection, short-circuit protection, reverse connection protection, output overvoltage and current-limiting protection, overheating protection, and S-terminal compensation function				
Parallel connection function		It supports multiple units for parallel output to expand power/current range.				
Working environment		Temperature 0-40℃; Humidity 20-90%RH				
Dimension W×H×D(mm)		440×133×350		440×133×600		
Weight		16kg		17kg	27kg	37kg

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

Model		AN53300-15S(F)	AN53300-30S(F)	AN53300-50(F)	AN53300-100(F)	AN53300-150(F)
Input	Voltage	Single phase+PE, 198V-242VAC		Three-phase three-wire+PE, 340V-420VAC		
	Frequency	47-63Hz				
Output	Voltage	0-300V				
	Current	0-15A	0-30A	0-50A	0-100A	0-150A
	Power	0-1.8kW	0-3kW	0-5kW	0-10kW	0-15KW
Display mode		4.3-inch color LCD				
Measurement error (readback accuracy)	Voltage	≤0.05%Umax, resolution 0.01V				
	Current	≤0.1%Imax, resolution 0.01A (>1000A, 0.1A)				
	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)				
Ripple and Noise 20Hz-20MHz	Vrms	60mV				
	Vpp	450mV				
Load effect		Voltage≤0.01%Umax, current≤0.05%Imax				
Power effect		Voltage≤0.01%Umax, current≤0.01%Imax				
Transient response time		≤2ms				
Rise time		≤30ms (10%-90%)				
Maximum lead drop compensation		6.5V				
Communication control interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB				
Protection functions		Input undervoltage protection, short-circuit protection, reverse connection protection, output overvoltage and current-limiting protection, overheating protection, and S-terminal compensation function.				
Parallel connection function		It supports multiple units for parallel output to expand power/current range.				
Working environment		Temperature 0-40℃; Humidity 20-90%RH				
Dimension W×H×D(mm)		440×133×350		440×133×600		
Weight		16kg		17kg	27kg	37kg

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

Model		AN53500-40(F)	AN53500-80(F)	AN53500-120(F)
Input	Voltage	Three-phase three-wire+PE, 340V-420VAC		
	Frequency	47-63Hz		
Output	Voltage	0-500V		
	Current	0-40A	0-80A	0-120A
	Power	0-5kW	0-10kW	0-15kW
Display mode		4.3-inch color LCD		
Measurement error (readback accuracy)	Voltage	≤0.05%Umax, resolution 0.01V		
	Current	≤0.1%Imax, resolution 0.01A (>1000A, 0.1A)		
	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)		
Ripple and Noise 20Hz-20MHz	Vrms	80mV		
	Vpp	700mV		
Load effect		Voltage≤0.01%Umax, current≤0.05%Imax		
Power effect		Voltage≤0.01%Umax, current≤0.01%Imax		
Transient response time		≤2ms		
Rise time		≤30ms (10%-90%)		
Maximum lead drop compensation		25V		
Communication control interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB		
Protection functions		Input undervoltage protection, short-circuit protection, reverse connection protection, output overvoltage and current-limiting protection, overheating protection, and S-terminal compensation function.		
Parallel connection function		It supports multiple units for parallel output to expand power/current range.		
Working environment		Temperature 0-40℃; Humidity 20-90%RH		
Dimension W×H×D(mm)		440×133×600		
Weight		17kg	27kg	37kg

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

Model		AN53750-20(F)	AN53750-40(F)	AN53750-60(F)
Input	Voltage	Three-phase three-wire+PE, 340V-420VAC		
	Frequency	47-63Hz		
Output	Voltage	0-750V		
	Current	0-20A	0-40A	0-60A
	Power	0-5kW	0-10kW	0-15kW
Display mode		4.3-inch color LCD		
Measurement error (readback accuracy)	Voltage	≤0.05%Umax, resolution 0.01V		
	Current	≤0.1%Imax, resolution 0.01A (>1000A, 0.1A)		
	Power	≤1%Pmax, resolution 0.001kW(>100kW, 0.01kW)		
Ripple and Noise 20Hz-20MHz	Vrms	200mV		
	Vpp	800mV		
Load effect		Voltage≤0.01%Umax, current≤0.05%Imax		
Power effect		Voltage≤0.01%Umax, current≤0.01%Imax		
Transient response time		≤2ms		
Rise time		≤30ms (10%-90%)		
Maximum lead drop compensation		25V		
Communication control interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB		
Protection functions		Input undervoltage protection, short-circuit protection, reverse connection protection, output overvoltage and current-limiting protection, overheating protection, and S-terminal compensation function.		
Parallel connection function		It supports multiple units for parallel output to expand power/current range.		
Working environment		Temperature: 0-40℃; Humidity: 20%-90%RH		
Dimension W×H×D(mm)		440×133×595		
Weight		17kg	27kg	37kg

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

Specifications

Model		AN531000-40(F)	AN531500-40(F)	AN532250-20(F)
Input	Voltage	Three-phase three-wire+PE, 340V-420VAC		
	Frequency	47-63Hz		
Output	Voltage	0-1,000V	0-1,500V	0-2,250V
	Current	0-40A		0-20A
	Power	0-10kW	0-15kW	0-15kW
Measurement error (readback accuracy)	Voltage	≤0.05%Umax, resolution 0.01V		
	Current	≤0.1%Imax, resolution 0.01A (>1000A, 0.1A)		
	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)		≤3%Pmax, resolution 0.001kW(>100kW, 0.01kW)
Ripple and Noise 20Hz-20MHz	Vrms	350mV	400mV	500mV
	Vpp	1600mV	2400mV	2800mV
Load effect		Voltage≤0.01%Umax, current≤0.05%Imax		
Power effect		Voltage≤0.01%Umax, current≤0.01%Imax		
Transient response time		≤2ms		
Rise time		≤30ms (10%-90%)		
Maximum lead drop compensation		25V		28.5V
Communication control interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB		
Protection functions		Input undervoltage protection, short-circuit protection, reverse connection protection, output overvoltage and current-limiting protection, overheating protection, and S-terminal compensation function.		
Parallel connection function		It supports multiple units for parallel output to expand power/current range.		
Working environment		Temperature 0-40℃; Humidity 20-90%RH		
Dimension W×H×D(mm)		440×133×600		
Weight		27kg	37kg	

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

Ordering and function expansion

- AN5380-120S(F): 80V/120A/1800W
- AN5380-170S(F): 80V/170A/3000W
- AN5380-170(F): 80V/170A/5000W
- AN5380-340(F): 80V/340A/10000W
- AN5380-510(F): 80V/510A/15000W
- AN53300-15S(F): 300V/15A/1800W
- AN53300-30S(F): 300V/30A/3000W
- AN53300-50(F): 300V/50A/5000W
- AN53300-100(F): 300V/100A/10000W
- AN53300-150(F): 300V/150A/15000W
- AN53500-40(F): 500V/40A/5000W
- AN53500-80(F): 500V/80A/10000W
- AN53500-120(F): 500V/120A/15000W
- AN53750-20(F): 750V/20A/5000W
- AN53750-40(F): 750V/40A/10000W
- AN53750-60(F): 750V/60A/15000W
- AN531000-40(F): 1000V/40A/10000W
- AN531500-40(F): 1500V/40A/15000W
- AN532250-20(F): 2250V/20A/15000W

- It supports multiple units for parallel output to expand power/current range.

Bidirectional Programmable DC Power Supply
ANEVH(F) Series

Product Introduction

The ANEVH(F) Series is a programmable DC power supply that integrates DC power and feedback load. It can function as a source, outputting power to the outside world, and as a sink, absorbing power and returning it cleanly to the grid, achieving standard bidirectional operation.

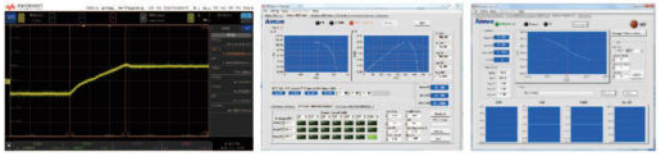
The ANEVH(F) Series of bidirectional programmable DC test power supplies include 7 voltage levels, covering a voltage range from 0V to 2250V, supporting the parallel operation of multiple units, and expandable up to 1MV in maximum power. The energy flows bidirectionally, with automatic seamless switching, high power density, fast dynamic response characteristics, built-in function generators and standard test curves, and the ability to generate multiple waveforms freely. It can be used in laboratories, automotive electronics, new energy battery-motor-electronic control, microgrids, high-power tests, and other testing scenarios.

Features

- Integrates source and load functions in a 3U standard chassis across the entire series.
- Integrates high-frequency PWM rectification and bidirectional DCDC technology, comprehensively eliminating the noise of conventional high-power bidirectional power supplies, rendering it a silent power supply.
- Higher power density, smaller size, and faster speed. Energy flows bidirectionally, with automatic seamless switching in both directions.
- Feedback efficiency up to 95%, with outstanding energy-saving and environmentally friendly advantages.
- Voltage range: covers 7 voltage levels from 0V to 2250V, the highest in the industry, with unique high-voltage series connection technology.
- Has a built-in function generator that supports arbitrary waveform generation.
- Has built-in DIN40839, ISO-16750-2, and ISO21848 standard automotive power grid voltage curves.
- Has the electronic load function, with multiple load modes such as CV, CC, CP, CR, CV+CC, CV+CR, CC+CR, and CV+CC+CP+CR.
- Has the ability to simulate the output characteristics (Fill Factor) of various solar batteries.
- It can test maximum power point tracking (MPPT) capability and efficiency.
- It has the ability of accurate voltage and current measurement.
- Sequence output can be set to test the operating voltage range of photovoltaic inverters.
- It has comprehensive protection functions, including OTP, OVP, OCP, and OPP.
- It has the S-terminal compensation function.
- It has the solar battery I-V curve simulation function.
- It has a standard RS232/RS485/CAN/LAN/USB communication interface.
- It is equipped with the standard graphical upper computer operational software, and can be operated as a single unit.
- It has the battery simulation function, simulating the output characteristic curves of various batteries.
- It can simulate I-V curves under different temperature and illumination conditions.

Application

- Microgrid and micro-inverter tests.
- Automotive motor, controller and power battery tests. Fuel battery test and fuel battery DCDC test.
- Uninterruptible power supply (UPS), on-board charger (OBC), charging station, and bidirectional DC-DC tests. Industrial tests such as electrolysis, electroplating, and welding.
- Communication power supply and LED product tests. Tests of automotive electronics, military electronics, and aviation electronics.
- High-power test and DC feedback load demand scenarios.



The switch time from maximum reverse current to maximum forward current is as low as 1.4ms.

Specifications

Model		ANEVH100-170(F)	ANEVH100-340(F)	ANEVH100-510(F)	ANEVH300-75(F)	ANEVH300-150(F)	ANEVH300-225(F)
Input	Phase number	Three-phase three-wire+PE					
	Voltage	342V-528VAC					
	Frequency	45-66Hz					
	Power factor	≥0.99					
Output	Voltage	0-100VDC	0-100VDC	0-100VDC	0-300VDC	0-300VDC	0-300VDC
	Current	-170A-170A	-340A-340A	-510A-510A	-75A-75A	-150A-150A	-225A-225A
	Power	-5KW-5KW	-10KW-10KW	-15KW-15KW	-5kW-5kW	-10kW-10kW	-15kW-15kW
Display mode		4.3-inch color LCD					
Voltage resolution		0.01V (>1000V, 0.1V)					
Current resolution		0.01A (>1000A, 0.1A)					
Power resolution		0.001kW (>100kW, 0.01kW)					
Setting error (programming accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Measurement error (readback accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Ripple and noise 20Hz-20MHz	Vrms	40mVrms			100mVrms		
	Vpp	250mVpp			650mVpp		
Load effect	Voltage	≤0.01%Umax					
	Current	≤0.05%Imax					
Power effect	Voltage	≤0.01%Umax					
	Current	≤0.01%Imax					
Voltage rise time		≤30ms (10%-90%)					
Transient response time		≤2ms					
Forward and reverse switching time		2ms (+90%-90%)					
Temperature drift	Voltage	0.05% set value					
	Current	0.05% set value					
Noise		≤65dB(A) (Measuring distance≥2m)					
OVP range		110%F.S					
Maximum lead drop compensation		≤5% Umax (6.5V)					
Communication function		Standard: CAN/232/485/LAN/USB, optional: GPIB					
Protection functions		Input undervoltage protection, short-circuit protection, output overvoltage, current-limiting protection and internal overheating protection.					
Analog interface (optional)		Startup, stop, alarm, 0-5V or 0-10V analog control output					
Other external interfaces		Standard equipped parallel port					
Efficiency		~90%					
Feedback parameters	Frequency	45-66Hz					
	Power factor	≥0.99					
	Switching time	≤2ms					
	Feedback function	Full power range feedback					
	Feedback efficiency	~90%					
Working temperature		0-50℃					
Storage temperature		-20-70℃					
Humidity		＜80%, no condensation					
Dimension	Housing dimension	444×133×753mm					
	Overall dimension	482×133×787mm					
Weight		5kw: ≤21kg 10kw: ≤29kg 15kw ≤37kg					
Remarks		1. The test condition of programming accuracy/readback accuracy is (25℃±5℃). 2. The time required for the output voltage to recover to within "rated value±0.75%" when the load changes from 100% to 50% or vice versa.					

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

Specifications

Model		ANEVH500-40(F)	ANEVH500-80(F)	ANEVH500-120(F)	ANEVH750-25(F)	ANEVH750-50(F)	ANEVH750-75(F)
Input	Phase number	Three-phase three-wire+PE					
	Voltage	342V-528VAC					
	Frequency	45-66Hz					
	Power factor	≥0.99					
Output	Voltage	0-500VDC	0-500VDC	0-500VDC	0-750VDC	0-750VDC	0-750VDC
	Current	-40A-40A	-80A-80A	-120A-120A	-25A-25A	-50A-50A	-75A-75A
	Power	-5kW-5kW	-10kW-10kW	-15kW-15kW	-5kW-5kW	-10kW-10kW	-15kW-15kW
Display mode		4.3-inch color LCD					
Voltage resolution		0.01V (>1000V, 0.1V)					
Current resolution		0.01A (>1000A, 0.1A)					
Power resolution		0.001kW (>100kW, 0.01kW)					
Setting error (programming accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Measurement error (readback accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Ripple and noise 20Hz-20MHz	Vrms	70mVrms			90mVrms		
	Vpp	500mVpp			800mVpp		
Load effect	Voltage	≤0.01%Umax					
	Current	≤0.05%Imax					
Power effect	Voltage	≤0.01%Umax					
	Current	≤0.01%Imax					
Voltage rise time		≤30ms (10%-90%)					
Transient response time		≤2ms					
Forward and reverse switching time		2ms (+90%-90%)					
Temperature drift	Voltage	0.05% set value					
	Current	0.05% set value					
Noise		≤65dB(A) (Measuring distance≥2m)					
OVP range		110%F.S					
Maximum lead drop compensation		≤5% Umax (6.5V)					
Communication function		Standard: CAN/232/485/LAN/USB, optional: GPIB					
Protection functions		Input undervoltage protection, short-circuit protection, output overvoltage, current-limiting protection and internal overheating protection.					
Analog interface (optional)		Startup, stop, alarm, 0-5V or 0-10V analog control output					
Other external interfaces		Standard equipped parallel port					
Efficiency		~90%					
Feedback parameters	Frequency	45-66Hz					
	Power factor	≥0.99					
	Switching time	≤2ms					
	Feedback function	Full power range feedback					
	Feedback efficiency	~90%					
Working temperature		0-50℃					
Storage temperature		-20-70℃					
Humidity		<80%, no condensation					
Dimension	Housing dimension	444×133×753mm					
	Overall dimension	482×133×787mm					
Weight		5kw: ≤21kg 10kw: ≤29kg 15kw ≤37kg					
Remarks		1. The test condition of programming accuracy/readback accuracy is (25℃±5℃). 2. The time required for the output voltage to recover to within "rated value±0.75%" when the load changes from 100% to 50% or vice versa.					

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

Specifications

Model		ANEVH1000-40(F)	ANEVH1000-75(F)	ANEVH1500-40(F)	ANEVH2250-25(F)
Input	Phase number	Three-phase three-wire+PE			
	Voltage	342V-528VAC			
	Frequency	45-66Hz			
	Power factor	≥0.99			
Output	Voltage	0-1,000VDC	0-1,000VDC	0-1,500VDC	0-2,250VDC
	Current	-40A-40A	-75A-75A	-40A-40A	-25A-25A
	Power	-10KW-10KW	-15KW-15KW	-15KW-15KW	-15KW-15KW
Display mode		4.3-inch color LCD			
Voltage resolution		0.01V (>1000V, 0.1V)			
Current resolution		0.01A (>1000A, 0.1A)			
Power resolution		0.001kW (>100kW, 0.01kW)			
Setting error (programming accuracy)	Voltage	≤0.05%F.S.			
	Current	≤0.1%F.S.			
	Power	≤1%FS			
Measurement error (readback accuracy)	Voltage	≤0.05%F.S.			
	Current	≤0.1%F.S.			
	Power	≤1%FS			
Ripple and noise 20Hz-20MHz	Vrms	300mVrms	100mVrms	200mVrms	
	Vpp	1600mVpp	1000mVpp	2000mVpp	
Load effect	Voltage	≤0.01%Umax			
	Current	≤0.05%Imax			
Power effect	Voltage	≤0.01%Umax			
	Current	≤0.01%Imax			
Voltage rise time		≤30ms (10%-90%)			
Transient response time		≤2ms			
Forward and reverse switching time		2ms (+90%-90%)			
Temperature drift	Voltage	0.05% set value			
	Current	0.05% set value			
Noise		≤65dB(A) (Measuring distance≥2m)			
OVP range		110%F.S			
Maximum lead drop compensation		≤5% Umax (6.5V)			
Communication function		Standard: CAN/232/485/LAN/USB, optional: GPIB			
Protection functions		Input undervoltage protection, short-circuit protection, output overvoltage, current-limiting protection and internal overheating protection.			
Analog interface (optional)		Startup, stop, alarm, 0-5V or 0-10V analog control output			
Other external interfaces		Standard equipped parallel port			
Efficiency		~90%			
Feedback parameters	Frequency	45-66Hz			
	Power factor	≥0.99			
	Switching time	≤2ms			
	Feedback function	Full power range feedback			
	Feedback efficiency	~90%			
Working temperature		0-50℃			
Storage temperature		-20-70℃			
Humidity		＜80%, no condensation			
Dimension	Housing dimension	444×133×753mm			
	Overall dimension	482×133×787mm			
Weight		5kw: ≤21kg 10kw: ≤29kg 15kw ≤37kg			
Remarks		1. The test condition of programming accuracy/readback accuracy is (25℃±5℃). 2. The time required for the output voltage to recover to within "rated value±0.75%" when the load changes from 100% to 50% or vice versa.			

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

Specifications

Model		ANEVH300-225(F)	ANEVH500-160(F)	ANEVH750-120(F)	ANEVH1000-80(F)	ANEVH1500-70(F)	ANEVH2250-50(F)
Input	Phase number	Three-phase three-wire+PE					
	Voltage	342V-528VAC					
	Frequency	45-66Hz					
	Power factor	≥0.99					
Output	Voltage	0-300VDC	0-500VDC	0-750VDC	0-1,000VDC	0-1,500VDC	0-2,250VDC
	Current	-225A-225A	-160A-160A	-120A-120A	-80A-80A	-70A-70A	-50A-50A
	Power	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW
Display mode		4.3-inch color LCD					
Voltage resolution		0.01V (>1000V, 0.1V)					
Current resolution		0.01A (>1000A, 0.1A)					
Power resolution		0.001kW (>100kW, 0.01kW)					
Setting error (programming accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Measurement error (readback accuracy)	Voltage	≤0.05%F.S.					
	Current	≤0.1%F.S.					
	Power	≤1%FS					
Ripple and noise 20Hz-20MHz	Vrms	100mVrms	80mVrms	80mVrms	220mVrms	220mVrms	400mVrms
	Vpp	650mVpp	750mVpp	800mVpp	1800mVpp	1800mVpp	2400mVpp
Load effect	Voltage	≤0.01%Umax					
	Current	≤0.05%Imax					
Power effect	Voltage	≤0.01%Umax					
	Current	≤0.01%Imax					
Voltage rise time		≤30ms (10%-90%)					
Transient response time		≤2ms					
Forward and reverse switching time		2ms (+90%-90%)					
Temperature drift	Voltage	0.05% set value					
	Current	0.05% set value					
Noise		≤65dB(A) (Measuring distance≥2m)					
OVP range		110%F.S					
Maximum lead drop compensation		≤5% Umax (6.5V)					
Communication function		Standard: CAN/232/485/LAN/USB, optional: GPIB					
Protection functions		Input undervoltage protection, short-circuit protection, output overvoltage, current-limiting protection and internal overheating protection.					
Analog interface (optional)		Startup, stop, alarm, 0-5V or 0-10V analog control output					
Other external interfaces		Standard equipped parallel port					
Efficiency		~90%					
Feedback parameters	Frequency	45-66Hz					
	Power factor	≥0.99					
	Switching time	≤2ms					
	Feedback function	Full power range feedback					
	Feedback efficiency	~90%					
Working temperature		0-50℃					
Storage temperature		-20-70℃					
Humidity		＜80%, no condensation					
Dimension	Housing dimension	444×133×753mm					
	Overall dimension	482×133×787mm					
Weight		21kw≤39kg					
Remarks		1. The test condition of programming accuracy/readback accuracy is (25℃±5℃). 2. The time required for the output voltage to recover to within "rated value±0.75%" when the load changes from 100% to 50% or vice versa.					

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

Specifications

Model		ANEVH500-240(F)	ANEVH750-180(F)	ANEVH1500-80(F)	ANEVH2250-60(F)	ANEVH80-1020(F)
Input	Phase number	Three-phase three-wire+PE				
	Voltage	342V-528VAC				
	Frequency	45-66Hz				
	Power factor	≥0.99				
Output	Voltage	0-500VDC	0-750VDC	0-1,500VDC	0-2,250VDC	0-80VDC
	Current	-240A-240A	-180A-180A	-80A-80A	-60A-60A	-1,020A-1,020A
	Power	-30KW-30KW	-30KW-30KW	-30KW-30KW	-30KW-30KW	-30KW-30KW
Display mode		4.3-inch color LCD				
Voltage resolution		0.01V (>1000V, 0.1V)				
Current resolution		0.01A (>1000A, 0.1A)				
Power resolution		0.001kW (>100kW, 0.01kW)				
Setting error (programming accuracy)	Voltage	≤0.05%F.S.				
	Current	≤0.1%F.S.				
	Power	≤1%FS				
Measurement error (readback accuracy)	Voltage	≤0.05%F.S.				
	Current	≤0.1%F.S.				
	Power	≤1%FS				
Ripple and noise 20Hz-20MHz	Vrms	80mVrms	80mVrms	220mVrms	400mVrms	25mVrms
	Vpp	750mVpp	800mVpp	750mVpp	2400mVpp	400mVpp
Load effect	Voltage	≤0.01%Umax				≤0.02%Umax
	Current	≤0.05%Imax				≤0.05%Imax
Power effect	Voltage	≤0.01%Umax				≤0.02%Umax
	Current	≤0.01%Imax				≤0.05%Imax
Voltage rise time		≤30ms (10%-90%)				
Transient response time		≤2ms				
Forward and reverse switching time		2ms (+90%-90%)				
Temperature drift	Voltage	0.05% set value				
	Current	0.05% set value				
Noise		≤65dB(A) (Measuring distance≥2m)				
OVP range		110%F.S				
Maximum lead drop compensation		≤5% Umax (6.5V)				
Communication function		Standard: CAN/232/485/LAN/USB, optional: GPIB				
Protection functions		Input undervoltage protection, short-circuit protection, output overvoltage, current-limiting protection and internal overheating protection.				
Analog interface (optional)		Startup, stop, alarm, 0-5V or 0-10V analog control output				
Other external interfaces		Standard equipped parallel port				
Efficiency		~90%				~94%
Feedback parameters	Frequency	45-66Hz				
	Power factor	≥0.99				
	Switching time	≤2ms				
	Feedback function	Full power range feedback				
	Feedback efficiency	~90%				~94%
Working temperature		0-40℃				
Storage temperature		-20-70℃				
Humidity		＜80%, no condensation				
Dimension	Housing dimension	444×133×753mm				444×177×696.5mm
	Overall dimension	482×133×787mm				444×177×765mm
Weight		30kw:≤40kg				30kw:≤50kg
Remarks		1.The test condition of programming accuracy/readback accuracy is (25℃±5℃). 2. The time required for the output voltage to recover to within "rated value±0.75%" when the load changes from 100% to 50% or vice versa.				

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

High Power Bidirectional DC Power Supply
ANEVT(F) Series

Product Introduction

The ANEVT(F) Series High Precision bidirectional DC test power supply is a high-tech product integrated with high-frequency PWM rectification technology, bidirectional DC conversion technology, and FPGA digital control technology. It has adaptive grid feedback capability and can meet the continuous energy feedback requirements in the full power range. It also offers seamless switching between forward and reverse outputs, enabling seamless connection of energy transfer. With dual-loop control technology, it achieves ultra-high control precision, rapid response to customer device applications, ensuring equipment test stability and data precision. With its wide range of voltage and current output capabilities and rich output programming test functions, it better meets the diverse testing needs of customers' products. The device also includes multiple protection programming functions to better protect the safety of customer equipment during testing. Additionally, numerous additional product features enhance the stability and reliability of equipment operation.

Features

- It is a battery simulation, bidirectional output multifunctional integrated machine.
- It provides the source load integral mode with adjustable parameters.
- It has high voltage, large current, and wide range output capabilities.
- It features adaptive grid feedback function for full power continuous energy feedback.
- It supports CV, CC, CP, and CR working modes. Voltage 0.05%FS and current 0.1%FS.
- Response time≤3ms; forward and reverse switching time≤ 4ms.
- Power factor≥0.99, current harmonic distortion≤3%.
- It simulates 7 types of batteries such as lithium, nickel-hydrogen, lead-acid, etc.
- It has 1st, 2nd, and 3rd order battery simulation functions, supporting import and export of data in mat and csv data formats.
- It provides 900-step programming function with a minimum programming time of 1mS.
- It features independent air duct heat dissipation design, supporting long-term continuous operation of the equipment.
- It is equipped with standard CAN, RS232/RS485, LAN and other communication interfaces.
- It offers a three-in-one operation mode of buttons, knobs, and touch operation.
- It provides a high-brightness large-screen LCD display.

Specifications

Product series	Product model	Rated current	Rated power	Peak current	Peak power	Voltage range	Dimension /mm (W×D×H)
500V Series	ANEVT500-200C(F)	200A	60kW	300A	90KW	24V-500V	1000×1000×2100
	ANEVT500-300C(F)	300A	90kW	450A	135KW	24V-500V	1000×1000×2100
	ANEVT500-400C(F)	400A	120kW	500A	150KW	24V-500V	1000×1000×2100
800V Series	ANEVT800-200C(F)	200A	60kW	300A	90KW	24V-800V	1000×1000×2100
	ANEVT800-300C(F)	300A	90kW	450A	135KW	24V-800V	1000×1000×2100
	ANEVT800-400C(F)	400A	120kW	500A	150KW	24V-800V	1000×1000×2100
	ANEVT800-500C(F)	500A	160kW	625A	200KW	24V-800V	1500×1000×2100
	ANEVT800-600C(F)	600A	200kW	750A	250KW	24V-800V	1500×1000×2100
	ANEVT800-800C(F)	800A	300kW	1000A	375KW	24V-800V	1500×1200×2200
	ANEVT800-900C(F)	900A	400kW	1125A	500KW	24V-800V	2000×1200×2200
	ANEVT800-1000C(F)	1000A	500kW	1250A	625KW	24V-800V	2000×1200×2200
	ANEVT800-1200C(F)	1200A	600kW	1500A	750KW	24V-800V	2000×1200×2200
	ANEVT800-2000C(F)	2000A	1000kW	2500A	1300kW	24V-800V	4000×1200×2200
1000V Series	ANEVT1000-150C(F)	150A	60kW	225A	90kW	24V-1000V	1000×1000×2100
	ANEVT1000-200C(F)	200A	90KW	300A	135KW	24V-1000V	1000×1000×2100
	ANEVT1000-300C(F)	300A	120kW	375A	150KW	24V-1000V	1000×1000×2100
	ANEVT1000-500C(F)	500A	160kW	625A	200KW	24V-1000V	1500×1000×2100
	ANEVT1000-600C(F)	600A	200kW	750A	250KW	24V-1000V	1500×1000×2100
	ANEVT1000-800C(F)	800A	300kW	1000A	375KW	24V-1000V	1500×1200×2200
	ANEVT1000-900C(F)	900A	400kW	1125A	500KW	24V-1000V	2000×1200×2200
	ANEVT1000-1000C(F)	1000A	500kW	1250A	625KW	24V-1000V	2000×1200×2200
	ANEVT1000-1200C(F)	1200A	600kW	1500A	750KW	24V-1000V	2000×1200×2200
	ANEVT1000-2000C(F)	2000A	1000kW	2500A	1300KW	24V-1000V	4000×1200×2200
1200V Series	ANEVT1200-150C(F)	150A	60kW	225A	90kW	24V-1200V	1000×1000×2100
	ANEVT1200-200C(F)	200A	90kW	300A	135KW	24V-1200V	1000×1000×2100
	ANEVT1200-300C(F)	300A	120kW	375A	150KW	24V-1200V	1000×1000×2100
	ANEVT1200-500C(F)	500A	160kW	625A	200KW	24V-1200V	1500×1000×2100
	ANEVT1200-600C(F)	600A	200kW	750A	250KW	24V-1200V	1500×1000×2100
	ANEVT1200-800C(F)	800A	300kW	1000A	375KW	24V-1200V	1500×1200×2200
	ANEVT1200-900C(F)	900A	400kW	1125A	500KW	24V-1200V	2000×1200×2200
	ANEVT1200-1000C(F)	1000A	500kW	1250A	625KW	24V-1200V	2000×1200×2200
	ANEVT1200-1200C(F)	1200A	600kW	1500A	750KW	24V-1200V	2000×1200×2200
	ANEVT1200-2000C(F)	2000A	1000kW	2500A	1300KW	24V-1200V	4000×1200×2200

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

Application

- Testing of electric vehicle motors and controllers.
- Tests of electric vehicle transmission systems and power-train systems.
- Tests of special electric vehicle motors, controllers, electric vehicle transmission systems, and powertrain systems.
- Fuel battery test.
- New energy motor system test.
- Tests of vessel electric transmission and electric drive systems.
- Charger and charging station tests.
- Battery packs charging and discharging tests.
- Capacitor and super capacitor charging and discharging tests.
- Energy storage system inverter test.
- UPS and EPS system tests.
- Hybrid power test.
- It has simulated batteries for alternative real battery power supply testing scenarios.
- Suitable for high power DC test power supply applications.

Specifications

Product name			High Power Bidirectional DC Power Supply
Input parameter	Input method		Three-phase four-wire+PE
	Input voltage		Line voltage: 380V±15%
	Input frequency		50/60Hz±5Hz
	Input power factor		0.99
	Input electric harmony		3% (under rated conditions)
Output parameter	Voltage accuracy		0.05%F.S
	Current accuracy		0.1%F.S
	Power accuracy		0.2%F.S
	Power effect		0.1%F.S
	Load effect		0.1%F.S
	Ripple (Vpp)		0.2%F.S
	Transient recovery time		≤3ms (10%-90% rated resistive load switching)
	Current rise time		≤3ms (loading test after starting output)
Feedback parameter	Feedback voltage		323-437V
	Feedback frequency		Grid frequency (45Hz-65Hz)
	Power factor		≥0.99
	Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)
	Forward and reverse output switching time		≤4ms
	Feedback function		Full power continuous energy feedback
Product feature	Working mode		CV, CC, CP and CR
	Output programming		It provides programmable output voltage waveform, including voltage and current slope, step, cyclic control, and jump control; 900-step programming function, with the minimum programming time of 1ms.
	Emergency stop		With emergency stop button, it can quickly disconnect the connection with the load equipment
	Battery simulation		It can simulate functions of 7 types of batteries including ternary lithium, lithium manganese oxide, lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride. It has customizable battery cell capacity, series and parallel connection quantities, SOC, and temperature parameters with 1st, 2nd, and 3rd order battery simulation functions, supporting import and export of data in mat and csv data formats.
	Output ramp-up function		Programmable output voltage ramp-up
	Self-discharge function		It has a built-in discharge unit, which automatically discharges upon shutdown.
	Protection function		It has multiple protection devices, input protection devices, OCP, OVP, OPP, OTP, bus overvoltage protection, output short circuit protection, etc.
	Voltage drop compensation		It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop
Display and operation	Display resolution	Voltage	0.001V
		Current	0.001A
		Power	0.001kW
	Display mode		LCD
	Operation mode		Number key, knob and touch screen three-in-one
Communication interface	Serial interface		Standard RS232/RS485 (select one)
	CAN interface		Supports CAN2.0 protocol (AORB). Communication data update frequency ≥50Hz
	Ethernet		Supports Ethernet communication (standard)
Analog interface			Supports external analog emergency stop switch quantity input control
Safety performance	Insulation resistance		≥2MΩ (tested at 1,000V insulation voltage)
	Compressive strength		2000VDC 5mA/min
	Grounding resistance		≤100mΩ
Working environment	Working temperature		0℃-40℃
	Working humidity		20-90%RH (no condensation)
	Altitude		≤2,000m
	Storage temperature		-10℃-70℃
Noise			≤75dB
Cooling method			Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.
Protection level			IP21

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

Dual-channel Bidirectional DC Power Supply
ANEVT DA(F) Series

Product Introduction

The ANEVT DA(F) Series Bidirectional Dual-channel Bidirectional DC Power Supply is a dedicated test power supply developed for the new energy vehicle industry. It is a high-tech product integrating high-frequency PWM rectification technology, bidirectional DC conversion technology, and FPGA digital control technology. It has adaptive grid feedback capability and can meet the continuous energy feedback requirements in the full power range. It also offers seamless switching between forward and reverse outputs, enabling seamless connection of energy transfer. With dual-loop control technology, it achieves ultra-high control precision, rapid response to customer device applications, ensuring equipment test stability and data precision. It provides independent dual-channel outputs, each of which is controllable, offering a concise and reliable test scheme for different tests such as tests of motors, electronic controls, hybrids, etc.

Features

- It provides dual-channel outputs, with power freely allocated to each channel.
- Each channel has independent control and protection functions that do not interfere with each other.
- It is a battery simulation, bidirectional output multifunctional integrated machine.
- It provides the source load integral mode with adjustable parameters.
- It has high voltage, large current, and wide range output capabilities.
- It features adaptive grid feedback function for full power continuous energy feedback.
- It supports CV, CC, CP, CR working modes.
  Voltage 0.05%FS and current 0.1%FS.
- Response time≤3ms; forward and reverse switching time≤
- 4ms.
  Power factor≥0.99, current harmonic distortion≤3%.
- It simulates 7 types of batteries such as lithium, nickel-hydrogen, lead-acid, etc.
  It has 1st, 2nd, and 3rd order battery simulation functions,
- supporting import and export of data in mat and csv data formats.
- It provides 900-step programming function with a minimum programming time of 1mS.
  It features independent air duct heat dissipation design,
- supporting long-term continuous operation of the equipment.
- It is equipped with standard CAN, RS232/RS485, LAN and other communication interfaces.
- It offers a three-in-one operation mode of buttons, knobs, and touch operation.

Specifications

Product series	Product model	Single channel rated current	Single channel rated power	Single channel peak current	Single channel peak power	Single channel voltage range	Dimension /mm (W×D×H)
800V Series	ANEVT800-300DA(F)	300A	90kW	450A	135KW	24V-800V	1500×1000×2100
	ANEVT800-400DA(F)	400A	120kW	500A	150KW	24V-800V	1500×1000×2100
	ANEVT800-500DA(F)	500A	160kW	625A	200KW	24V-800V	2000×1000×2100
	ANEVT800-600DA(F)	600A	200kW	750A	250KW	24V-800V	2000×1000×2100
	ANEVT800-800DA(F)	800A	300kW	1000A	375KW	24V-800V	2000×1200×2200
	ANEVT800-900DA(F)	900A	400kW	1125A	500KW	24V-800v	2500×1200×2200
	ANEVT800-1000DA(F)	1000A	500kW	1250A	625KW	24V-800v	2500×1200×2200
	ANEVT800-1200DA(F)	1200A	600kW	1500A	750KW	24V-800V	2500×1200×2200
1000V Series	ANEVT1000-200DA(F)	200A	90kW	300A	135KW	24V-1000V	1500×1000×2100
	ANEVT1000-300DA(F)	300A	120kW	375A	150KW	24V-1000V	1500×1000×2100
	ANEVT1000-500DA(F)	500A	160kW	625A	200KW	24V-1000V	2000×1000×2100
	ANEVT1000-600DA(F)	600A	200kW	750A	250KW	24V-1000V	2000×1000×2100
	ANEVT1000-800DA(F)	800A	300kW	1000A	375KW	24V-1000V	2000×1200×2200
	ANEVT1000-900DA(F)	900A	400kW	1125A	500KW	24V-1000V	2500×1200×2200
	ANEVT1000-1000DA(F)	1000A	500kW	1250A	625KW	24V-1000V	2500×1200×2200
	ANEVT1000-1200DA(F)	1200A	600kW	1500A	750KW	24V-1000V	2500×1200×2200
1200V Series	ANEVT1200-200DA(F)	200A	90kW	300A	135KW	24V-1200V	1500×1000×2100
	ANEVT1200-300DA(F)	300A	120kW	375A	150KW	24V-1200V	1500×1000×2100
	ANEVT1200-500DA(F)	500A	160kW	625A	200KW	24V-1200V	2000×1000×2100
	ANEVT1200-600DA(F)	600A	200kW	750A	250KW	24V-1200V	2000×1000×2100
	ANEVT1200-800DA(F)	800A	300kW	1000A	375KW	24V-1200V	2000×1200×2200
	ANEVT1200-900DA(F)	900A	400kW	1125A	500KW	24V-1200V	2500×1200×2200
	ANEVT1200-1000DA(F)	1000A	500kW	1250A	625KW	24V-1200V	2500×1200×2200
	ANEVT1200-1200DA(F)	1200A	600kW	1500A	750KW	24V-1200V	2500×1200×2200
Remarks		Two channels can freely allocate power within the overall power range of the whole unit.					

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

Specifications

Product name			Dual-channel Bidirectional DC Power Supply
Input parameter	Input method		Three-phase four-wire+PE
	Input voltage		Line voltage: 380V±15%
	Input frequency		50/60Hz±5Hz
	Input power factor		0.99
	Current harmonics		3% (under rated conditions)
Output parameter	Voltage accuracy		0.05%F.S
	Current accuracy		0.1%F.S
	Power accuracy		0.2%F.S
	Power effect		0.1%F.S
	Load effect		0.1%F.S
	Ripple (Vpp)		0.2%F.S
	Transient recovery time		≤3ms (10%-90% rated resistive load switching)
	Current rise time		≤3ms (loading test after starting output)
Feedback parameter	Feedback voltage		323-437V
	Feedback frequency		Grid frequency (45Hz-65Hz)
	Power factor		≥0.99
	Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)
	Forward and reverse output switching time		≤4ms
	Feedback function		Full power continuous energy feedback
Product feature	Working mode		CV, CC, CP, and CR
	Output programming		It provides programmable output voltage waveform, including voltage and current slope, step, cyclic control, and jump control; 900-step programming function, with the minimum programming time of 1ms.
	Emergency stop		With emergency stop button, it can quickly disconnect the connection with the load equipment
	Battery simulation		It can simulate functions of 7 types of batteries including ternary lithium, lithium manganese oxide, lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride batteries. It has customizable battery cell capacity, series and parallel connection quantities, SOC, and temperature parameters with 1st, 2nd, and 3rd order battery simulation functions, supporting import and export of data in mat and csv data formats.
	Output ramp-up function		Programmable output voltage ramp-up
	Self-discharge function		It has a built-in discharge unit, which automatically discharges upon shutdown.
	Protection function		It has multiple protection devices, input protection devices, OCP, OVP, OPP, OTP, bus overvoltage protection, output short circuit protection, etc.
	Voltage drop compensation		It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop
Display and operation	Display resolution	Voltage	0.001V
		Current	0.001A
		Power	0.001kW
	Display mode		LCD
	Operation mode		Number key, knob and touch screen three-in-one
Communication interface	Serial interface		Standard RS232/RS485 (select one)
	CAN interface		Supports CAN2.0 protocol (AORB). Communication data update frequency ≥50Hz
	Ethernet		Supports Ethernet communication (standard)
Analog interface			Supports external analog emergency stop switch quantity input control
Safety performance	Insulation resistance		≥2MΩ (tested at 1,000V insulation voltage)
	Compressive strength		2,000VDC 5mA/min
	Grounding resistance		≤100mΩ
Working environment	Working temperature and working humidity		0℃-40℃
			20-90%RH (no condensation)
	Altitude and storage temperature		≤2000m
			-10℃-70℃
Noise			≤75dB
Cooling method			Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.
Protection level			IP21

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

Battery Simulator
ANEVS(F) Series

Product Introduction

The ANEVS(F) Series Battery Simulator has both battery simulation and photovoltaic simulation functions. It can simulate the charging and discharging characteristics of power lithium batteries, meeting the test requirements of new energy vehicle motors, electric drive systems, whole vehicle systems, energy storage inverters, and other devices or systems. It can also simulate the characteristics of photovoltaic cell panels, meeting the test requirements of photovoltaic inverters and photovoltaic energy storage inverter integrated machines.

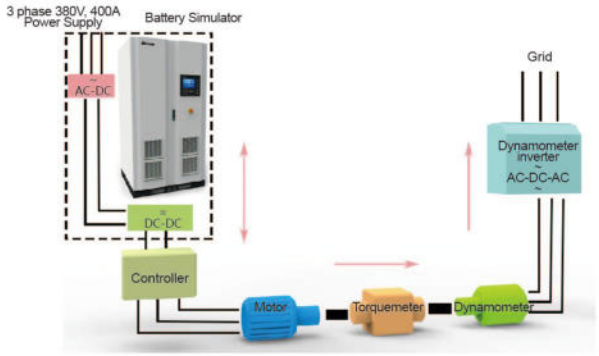
It adopts high-frequency PWM rectification technology, bidirectional DC conversion technology, and FPGA digital control technology. It features bidirectional energy flow, seamless switching between forward and reverse directions, and adaptive grid capabilities. It also has programmable protection parameter settings and output parameter limit settings, ensuring better safety for the device under test.

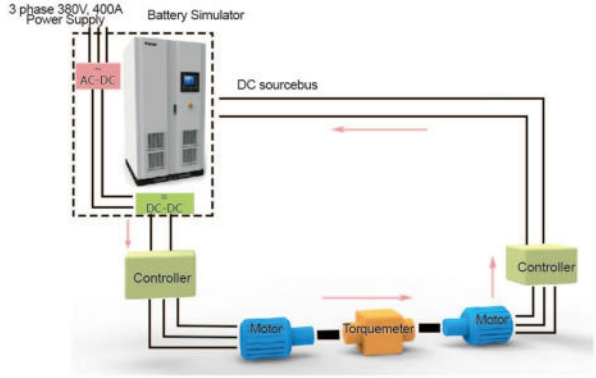
Features

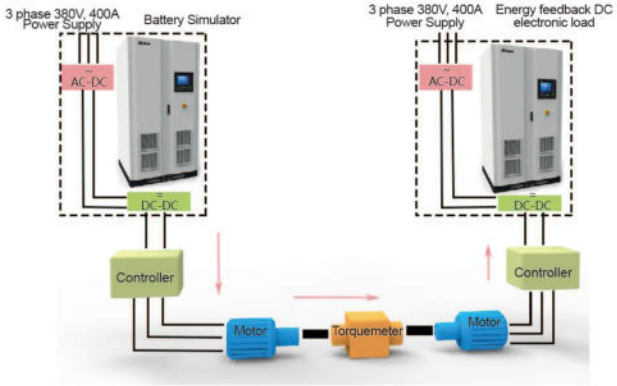
- It is a photovoltaic simulation and battery simulation integrated machine. It supports CV, CC, CP and CR working modes.
- Voltage 0.05%FS and current 0.1%FS.
- Response time≤3ms; switching time≤4ms.
- Power factor≥0.99, current harmonic distortion≤3%.
- It supports simulation of 7 types of batteries including ternary lithium, lithium iron phosphate, lithium titanium oxide, lithium cobalt oxide, lithium manganese oxide, nickel-metal hydride, and lead-acid batteries.
- It supports custom battery modes, with 1st, 2nd, and 3rd order battery models and internal resistance models, and allows for import and export of data in CSV and mat formats.
- It features photovoltaic characteristic V curve simulation function, supporting various types of solar battery panels and realistic simulation under different environmental conditions, with built-in standard curves such as Sandia and EN50530. It supports static and dynamic photovoltaic simulation.
- It provides 900-step programming function with a minimum programming time of 1mS.
- It supports standard CAN, RS232/RS485, LAN and other communication interfaces.

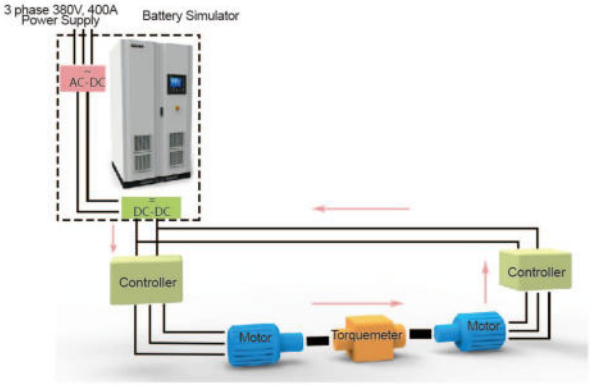
Application

- Testing of electric vehicle motors and controllers.
- Tests of electric vehicle transmission systems and power-train systems.
- Tests of special electric vehicle motors, controllers, electric vehicle transmission systems, and powertrain systems.
- New energy motor system test.
- Tests of vessel electric transmission and electric drive systems.
- Charger and charging pile tests.
- Capacitor and super capacitor charging and discharging tests.
- Energy storage system inverter test.
- UPS and EPS system tests.
- Hybrid power test.
- Suitable for high power DC test power supply applications.
- Battery pack charging and discharging tests.
- It has simulated batteries for alternative real battery power supply testing scenarios.



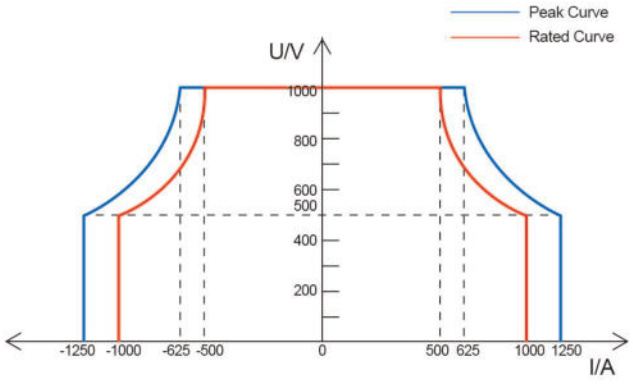




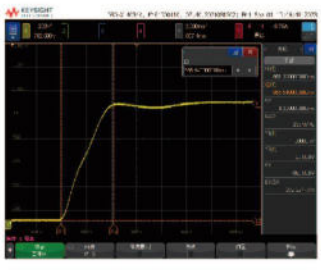


Output VI characteristic curve

It features advanced IGBT parallel connection technology, delivering higher peak power and peak current output, as demonstrated by ANEVS1000-600C and ANEVS1000-1000C.



Fast dynamic response characteristics



Specifications

Product series	Product model	Rated current	Rated power	Peak current	Peak power	Voltage range	Dimension /mm (W×D×H)
800V Series	ANEVS800-200C(F)	200A	60kW	300A	90KW	24V-800V	1000×1000×2100
	ANEVS800-300C(F)	300A	90kW	450A	135KW	24V-800V	1000×1000×2100
	ANEVS800-400C(F)	400A	120kW	500A	150KW	24V-800V	1000×1000×2100
	ANEVS800-500C(F)	500A	160kW	600A	200KW	24V-800V	1500×1000×2100
	ANEVS800-600C(F)	600A	200kW	750A	250KW	24V-800V	1500×1000×2100
	ANEVS800-800C(F)	800A	300kW	1000A	375KW	24V-800V	1500×1200×2200
	ANEVS800-900C(F)	900A	400kW	1125A	500KW	24V-800V	2000×1200×2200
	ANEVS800-1000C(F)	1000A	500kW	1250A	625KW	24V-800V	2000×1200×2200
	ANEVS800-1200C(F)	1200A	600kW	1500A	750KW	24V-800V	2000×1200×2200
	ANEVS800-2000C(F)	2000A	1000kW	2500A	1250kW	24V-800V	4000×1200×2200
1000V Series	ANEVS1000-150C(F)	150A	60kW	225A	90kW	24V-1000V	1000×1000×2100
	ANEVS1000-200C(F)	200A	90kW	300A	135KW	24V-1000V	1000×1000×2100
	ANEVS1000-300C(F)	300A	120kW	375A	150KW	24V-1000V	1000×1000×2100
	ANEVS1000-500C(F)	500A	160kW	625A	200KW	24V-1000V	1500×1000×2100
	ANEVS1000-600C(F)	600A	200kW	750A	250KW	24V-1000V	1500×1000×2100
	ANEVS1000-800C(F)	800A	300kW	1000A	375KW	24V-1000V	1500×1200×2200
	ANEVS1000-900C(F)	900A	400kW	1125A	500KW	24V-1000V	2000×1200×2200
	ANEVS1000-1000C(F)	1000A	500kW	1250A	625KW	24V-1000V	2000×1200×2200
	ANEVS1000-1200C(F)	1200A	600kW	1500A	750KW	24V-1000V	2000×1200×2200
	ANEVS1000-2000C(F)	2000A	1000kW	2500A	1250KW	24V-1000V	4000×1200×2200
1200V Series	ANEVS1200-150C(F)	150A	60kW	225A	90kW	24V-1200V	1000×1000×2100
	ANEVS1200-200C(F)	200A	90kW	300A	135KW	24V-1200V	1000×1000×2100
	ANEVS1200-300C(F)	300A	120kW	375A	150KW	24V-1200V	1000×1000×2100
	ANEVS1200-500C(F)	500A	160kW	625A	200KW	24V-1200V	1500×1000×2100
	ANEVS1200-600C(F)	600A	200kW	750A	250KW	24V-1200V	1500×1000×2100
	ANEVS1200-800C(F)	800A	300kW	1000A	375KW	24V-1200V	1500×1200×2200
	ANEVS1200-900C(F)	900A	400kW	1125A	500KW	24V-1200V	2000×1200×2200
	ANEVS1200-1000C(F)	1000A	500kW	1250A	625KW	24V-1200V	2000×1200×2200
	ANEVS1200-1200C(F)	1200A	600kW	1500A	750KW	24V-1200V	2000×1200×2200
	ANEVS1200-2000C(F)	2000A	1000kW	2500A	1250KW	24V-1200V	4000×1200×2200
1500V Series	ANEVS1500-160C(F)	160A	90kW	240A	135KW	48V-1500V	1200×1200×2100
	ANEVS1500-300C(F)	300A	200kW	375A	250KW	48V-1500V	2000×1000×2100
	ANEVS1500-500C(F)	500A	300kW	625A	375KW	48V-1500V	3000×1000×2100
	ANEVS1500-600C(F)	600A	400kW	750A	500KW	48V-1500V	3000×1000×2100
	ANEVS1500-800C(F)	800A	600kW	1000A	750KW	48V-1500V	3000×1200×2200
	ANEVS1500-1000C(F)	1000A	1000kW	1250A	1250KW	48V-1500V	4000×1200×2200
2000V Series	ANEVS2000-160C(F)	160A	90kW	240A	135KW	48V-2000V	1200×1200×2100
	ANEVS2000-200C(F)	200A	200kW	250A	250KW	48V-2000V	2000×1000×2100
	ANEVS2000-500C(F)	500A	300kW	625A	375KW	48V-2000V	3000×1000×2100
	ANEVS2000-600C(F)	600A	400kW	750A	500KW	48V-2000V	3000×1000×2100
	ANEVS2000-800C(F)	800A	600kW	1000A	750KW	48V-2000V	3000×1200×2200
	ANEVS2000-1000C(F)	1000A	1000kW	1250A	1250KW	48V-2000V	4000×1200×2200

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

Specifications

Product name			Battery simulator
Input parameter	Input method		Three-phase four-wire+PE
	Input voltage		Line voltage: 380V±15%
	Input frequency		50/60Hz+5Hz
	Input power factor		0.99
	Input electric harmony		3% (under rated conditions)
Output parameter	Voltage accuracy		0.05%F.S
	Current accuracy		0.1%F.S
	Power accuracy		0.2%F.S
	Power effect		0.1%F.S
	Load effect		0.1%F.S
	Ripple (Vpp)		0.2%F.S
	Transient recovery time		≤3ms (10%-90% rated resistive load switching)
	Current rise time		≤3ms (loading test after starting output)
Feedback parameter	Feedback voltage		323-437V
	Feedback frequency		Grid frequency (45Hz-65Hz)
	Power factor		≥0.99
	Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)
	Forward and reverse output switching		≤4ms
	Feedback function		Full power continuous energy feedback
Product feature	Working mode		CV, CC, CP and CR
	Output programming		It allows programmable output voltage waveforms, including voltage and current slopes, steps, cyclic control, and jump control.
	Emergency stop		With emergency stop button, it can quickly disconnect the connection with the load equipment
	Battery simulation		It can simulate models of 7 types of batteries including ternary lithium, lithium manganese oxide, lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride. It has customizable battery cell capacity, series and parallel connection quantities, SOC, and temperature parameters with 1st, 2nd, and 3rd order battery models and internal resistance models, supporting import and export of data in mat and CSV data formats.
	Photovoltaic simulation		It can set parameters such as VOC, ISC, VMP, IMP, FF, etc., with built-in standard curves such as Sandia and EN50530. It supports static and dynamic photovoltaic curves, as well as settings for temperature, shading, and other environmental parameters.
	Output ramp-up function		Programmable output voltage ramp-up
	Self-discharge function		It has a built-in discharge unit, which automatically discharges upon shutdown.
	Protection function		It has input undervoltage protection, input overcurrent protection, input phase loss protection, output overcurrent protection, output short-circuit protection, bus overvoltage protection, internal overheating protection, programmable OVP LVP OCP LVP OPP protection parameter values, and enable protection functions.
	Line drop compensation		It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop
Display and operation	Display resolution	Voltage	0.001V
		Current	0.001A
		Power	0.001kW
	Display mode		LCD
	Operation mode		Number key, knob and touch screen three-in-one
Communication interface	Serial interface		Standard RS232/RS485 (select one)
	CAN interface		Supports CAN2.0 protocol. Communication data update frequency ≥50Hz
	Ethernet		Supports the Ethernet communications
Analog interface			Supports external analog emergency stop switch quantity input control
Safety performance working environment	Insulation resistance		≥2MΩ (tested at 1,000V insulation voltage)
	Compressive strength		2,000VDC 5mA/min
	Grounding resistance		≤100mΩ
	Working temperature		0℃-40℃
	Working humidity		20-90%RH (no condensation)
	Altitude		≤2,000m
	Storage temperature		-10℃-70℃
Noise			≤75dB
Cooling method			Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.
Protection level			IP21

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

Dual-channel Battery Simulator
ANEVS DA(F) Series

Product Introduction

The ANFVS(F) Series Battery Simulator has both battery simulation and photovoltaic simulation functions. It can simulate the charging and discharging characteristics of power lithium batteries, meeting the test requirements of new energy vehicle motors, electric drive systems, whole vehicle systems, energy storage inverters, and other devices or systems. It can also simulate the characteristics of photovoltaic cell panels, meeting the test requirements of photovoltaic inverters and photovoltaic energy storage inverter integrated machines.

It adopts high-frequency PWM rectification technology, bidirectional DC conversion technology, and FPGA digital control technology. It features bidirectional energy flow, seamless switching between forward and reverse directions, and adaptive grid capabilities. It also has programmable protection parameter settings and output parameter limit settings, ensuring better safety for the device under test.

Features

- It provides dual-channel outputs, with power freely allocated to each channel.
- Each channel has independent control and protection functions that do not interfere with each other.
- It is a multifunctional integrated machine for photovoltaic simulation, battery simulation, and bidirectional output.
- It provides the source load integral mode with adjustable parameters.
- It has high voltage, large current, and wide range output capabilities.
- It features adaptive grid feedback function for full power continuous energy feedback.
- It supports CV, CC, CP, CR working modes.
- Voltage 0.05%FS and current 0.1%FS.
- Response time≤3ms; forward and reverse switching time≤ 4ms.
- Power factor≥0.99, current harmonic distortion≤3%.
- It simulates 7 types of batteries such as lithium, nickel-hydrogen, lead-acid, etc.
- It has 1st, 2nd, and 3rd order battery simulation functions, supporting import and export of data in mat and csv data formats.
- It provides 900-step programming function with a minimum programming time of 1mS.
- It features independent air duct heat dissipation design, supporting long-term continuous operation of the equipment.
- It is equipped with standard CAN, RS232/RS485, LAN and other communication interfaces.
- It offers a three-in-one operation mode of buttons, knobs, and touch operation.

Specifications

Product series	Product model	Single channel rated current	Single channel rated power	Single channel peak current	Single channel peak power	Single channel voltage range	Dimension /mm (W×D×H)
800V Series	ANEVS800-300DA(F)	300A	90kW	450A	135KW	24V-800V	1500×1000×2100
	ANEVS800-400DA(F)	400A	120kW	500A	150KW	24V-800V	1500×1000×2100
	ANEVS800-500DA(F)	500A	160kW	625A	200KW	24V-800V	2000×1000×2100
	ANEVS800-600DA(F)	600A	200kW	750A	250KW	24V-800V	2000×1000×2100
	ANEVS800-800DA(F)	800A	300kW	1000A	375KW	24V-800V	2000×1200×2100
	ANEVS800-900DA(F)	900A	400kW	1125A	500KW	24V-800V	2500×1200×2200
	ANEVS800-1000DA(F)	1000A	500kW	1250A	625KW	24V-800V	2500×1200×2200
	ANEVS800-1200DA(F)	1200A	600kW	1500A	750KW	24V-800V	2500×1200×2200
1000V Series	ANEVS1000-200DA(F)	200A	90kW	300A	135KW	24V-1000V	1500×1000×2100
	ANEVS1000-300DA(F)	300A	120kW	375A	150KW	24V-1000V	1500×1000×2100
	ANEVS1000-500DA(F)	500A	160kW	625A	200KW	24V-1000V	2000×1000×2100
	ANEVS1000-600DA(F)	600A	200kW	750A	250KW	24V-1000V	2000×1000×2100
	ANEVS1000-800DA(F)	800A	300kW	1000A	375KW	24V-1000V	2000×1200×2100
	ANEVS1000-900DA(F)	900A	400kW	1125A	500KW	24V-1000V	2500×1200×2200
	ANEVS1000-1000DA(F)	1000A	500kW	1250A	625KW	24V-1000V	2500×1200×2200
	ANEVS1000-1200DA(F)	1200A	600kW	1500A	750KW	24V-1000V	2500×1200×2200
1200V Series	ANEVS1200-200DA(F)	200A	90kW	300A	135KW	24V-1200V	1500×1000×2100
	ANEVS1200-300DA(F)	300A	120kW	375A	150KW	24V-1200V	1500×1000×2100
	ANEVS1200-500DA(F)	500A	160kW	625A	200KW	24V-1200V	2000×1000×2100
	ANEVS1200-600DA(F)	600A	200kW	750A	250KW	24V-1200V	2000×1000×2100
	ANEVS1200-800DA(F)	800A	300kW	1000A	375KW	24V-1200V	2000×1200×2100
	ANEVS1200-900DA(F)	900A	400kW	1125A	500KW	24V-1200V	2500×1200×2200
	ANEVS1200-1000DA	1000A	500kW	1250A	625KW	24V-1200V	2500×1200×2200
	ANEVS1200-1200DA	1200A	600kW	1500A	750KW	24V-1200V	2500×1200×2200
Remarks		Two channels can freely allocate power within the overall power range of the whole unit.					

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Specifications

Product name			Dual-channel Battery Simulator
Input parameter	Input method		Three-phase four-wire+PE
	Input voltage		Line voltage: 380V±15%
	Input frequency		50/60Hz+5Hz
	Input power factor		0.99
	Input electric harmony		3% (under rated conditions)
Output parameter	Voltage accuracy		0.05%F.S
	Current accuracy		0.1%F.S
	Power accuracy		0.2%F.S
	Power effect		0.1%F.S
	Load effect		0.1%F.S
	Ripple (Vpp)		0.2%F.S
	Transient recovery time		≤3ms (10%-90% rated resistive load switching)
	Current rise time		≤3ms (loading test after starting output)
Feedback parameter	Feedback voltage		323-437V
	Feedback frequency		Grid frequency (45Hz-65Hz)
	Power factor		≥0.99
	Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)
	Forward and reverse output switching		≤4ms
	Feedback function		Full power continuous energy feedback
Product feature	Working mode		CV, CC, CP and CR
	Output programming		It allows programmable output voltage waveforms, including voltage and current slopes, steps, cyclic control, and jump control.
	Emergency stop		With emergency stop button, it can quickly disconnect the connection with the load equipment
	Battery simulation		It can simulate models of 7 types of batteries including ternary lithium, lithium manganese oxide, lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride. It has customizable battery cell capacity, series and parallel connection quantities, SOC, and temperature parameters with 1st, 2nd, and 3rd order battery models and internal resistance models, supporting import and export of data in mat and CSV data formats.
	Photovoltaic simulation		It can set parameters such as VOC, ISC, VMP, IMP, FF, etc., with built-in standard curves such as Sandia and EN50530. It supports static and dynamic photovoltaic curves, as well as settings for temperature, shading, and other environmental parameters.
	Output ramp-up function		Programmable output voltage ramp-up
	Self-discharge function		It has a built-in discharge unit, which automatically discharges upon shutdown.
	Protection function		It has input undervoltage protection, input overcurrent protection, input phase loss protection, output overcurrent protection, output short-circuit protection, bus overvoltage protection, internal overheating protection, programmable OVP LVP OCP LVP OPP protection parameter values, and enable protection functions.
	Line drop compensation		It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop
Display and operation	Display resolution	Voltage	0.001V
		Current	0.001A
		Power	0.001kW
	Display mode		LCD
	Operation mode		Number key, knob and touch screen three-in-one
Communication interface	Serial interface		Standard RS232/RS485 (select one)
	CAN interface		Supports CAN2.0 protocol. Communication data update frequency ≥50Hz
	Ethernet		Supports the Ethernet communications
Analog interface			Supports external analog emergency stop switch quantity input control
Safety performance working environment	Insulation resistance		≥2MΩ (tested at 1,000V insulation voltage)
	Compressive strength		2,000VDC 5mA/min
	Grounding resistance		≤100mΩ
	Working temperature		0℃-40℃
	Working humidity		20-90%RH (no condensation)
	Altitude		≤2,000m
	Storage temperature		-10℃-70℃
Noise			≤75dB
Cooling method			Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.
Protection level			IP21

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