

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/1.5k

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

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					
	Voltage	0~10V 0~35V				0~60V			
Output	Current	0~100A	0~30A	0~50A	0~100A	0~25A	0~50A		
	Power	0~1000W	0~1000W	0~3000W	0~1500W	0~3000W			
Resolution/	Voltage		Resolut	ion: 0.001V (≥10V, 0	0.01V),Accuracy≤0.49	6Umax			
Accuracy	Current		Resolut	0.01A) , Accuracy≤0.5%	6lmax				
Ripple and Noise	Vrms		30	mV		60r	mV		
20Hz~20MHz	Vpp		20	0mV		300mV			
Effect	Voltage	Load effect≤0.1%Umax, Source effect≤0.05%Umax							
Ellect	Current		l	oad effect≤0.2%lmax, Source effect≤0.1%lmax					
Transient respor	nse time			≤5	ms				
Rise time 10	00%		On line voltag	e adjustment: 50ms (1	10%-90%) ; Start slow	rise time: 1s			
Max output vo				2	V				
Communica	tion			RS-232 (Standar	d) /485(Optional)				
Protection	n	Output short circuit	protection ,output over	ervoltage, overheat, S-terminal over compensation protection, S-terminal reverse protection					
Analog interface(optional)		Start st	Starts stops alarms 0-5V/ 0-10V or 4-20mA analog control output					
Environme	ent		- 1	remperature: 0∼40℃;	Humidity: 20~90%RH	I			
Dimension W×H	×D(mm)	210×133	×325		440×13	3×350			
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				
	Voltage	0~12	0V	0~300	OV		
Output	Current	0~12.5A	0~25A	0~5A	0~10A		
	Power	0~1500W	0~3000W	0~1500W	0~3000W		
Resolution/	Voltage	, N	Resolution 0.001V/0.01V/0.	1V, Accuracy≤0.4%Umax			
Accuracy	Current		Resolution 0.001A/0.01A	, Accuracy≤0.5%Imax			
Ripple and Noise	Vrms	80m	V	100m	V		
20Hz~20MHz	Vpp	400n	nV	500mV			
Load effect Voltage		Load effect≤0.1%Umax, Source effect≤0.05%Umax					
Load ellect	Current	Load effect≤0.2%lmax, Source effect≤0.1%lmax					
Transient respor	nse time	≤5ms					
Rise time 10	00%	On line voltage adjustment: 50ms (10%-90%); Start slow rise time: 1s					
Max output vo			10	V			
Communica	tion		RS-232 (Standard	I) /485(Optional)			
Protection	n	Output short circuit protection ,	output overvoltage, overheat, S-tern	ninal over compensation protection, S	terminal reverse protection		
Analog interface(optional)	Start、stop、alarm、0-5V/ 0-10V or 4-20mA analog control output					
Environme	ent		Temperature: 0~40℃;	Humidity: 20~90%RH			
Dimension W×H	×D(mm)		440×13	3×350			
Weight		9kg	12kg	9kg	12kg		



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.

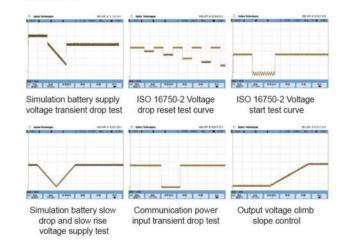
Features

- 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.





Model	Model AN5135-50(F)		AN5135-100(F)	AN5160-25(F)	AN5160-50(F)		
Input			Single phase, 220	V±22V, 47-63Hz			
	Voltage	0~;	35V	0~6	60V		
Output	Current	0~50A	0~100A	0~25A	0~50A		
	Power	0~1500W	0~3000W	0~1500W	0~3000W		
Resolution/	Voltage		Resolution 0.01V, Ad	ccuracy≤0.2%Umax			
Accuracy	Current		Resolution 0.01A, Ad	ccuracy≤0.35%lmax			
Ripple and Noise	Vrms	30r	nV	60n	nV		
20Hz~20MHz	Vpp	200	mV	300mV			
="	Voltage		Load effect≤0.1%Umax, Source effect≤0.05%Umax				
Effect	Current		Load effect≤0.2%lmax, S	Source effect≤0.1%Imax			
Transient respor	nse time	≤5	ms (50%-100%, or 100%-50%, er	ror returns to 0.75% of stable value))		
Rise time 10	0%	0	n line voltage adjustment: 50ms (10	0%-90%); Start slow rise time: 13	S		
Communica	tion		RS-232 (Standard) /485(Optiona	I) / Analog interface (Optional)			
Protection	1	Output short circuit protection	output overvoltage, overheat, S-term	inal over compensation protection,	S-terminal reversal protection		
List test fund	tion		Capable of storing 50 sequences, e	ach sequence contains 20 steps,			
(Optional)	each st	ep of the function can be set indepen	dently, a total of 13 independent fun	ctions.		
Environme	nt		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, 22	0V±22V, 47-63Hz			
	Voltage	0~120\	/	0~300	OV.		
Output	Current	0~12.5A 0~25A		0~5A	0~10A		
	Power	0~1500W 0~3000W		0~1500W	0~3000W		
Resolution/	Voltage		Resolution: 0.1V/0.01\	/, Accuracy≤0.2%Umax			
Accuracy	Current	Resolution: 0.01A, Acc	uracy≤0.35%lmax	Resolution: 0.001A, A	ccuracy≤0.35%lmax		
Ripple and Noise	Vrms	80mV		100m	V		
20Hz~20MHz	Vpp	400mV		500mV			
Voltage		Load effect≤0.1%Umax, Source effect≤0.05%Umax					
Effect	Current	Load effect≤0.2%lmax, Source effect≤0.1%lmax					
Transient respor	nse time	≤5ms	(50%-100%, or 100%-50%, e	error returns to 0.75% of stable value)			
Rise time 10	00%	On lin	ne voltage adjustment: 50ms (10%-90%); Start slow rise time: 1S			
Communica	tion	F	RS-232 (Standard) /485(Option	al) / Analog interface (Optional)			
Protection	n	Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reversal protection					
List test fund	tion	C	apable of storing 50 sequences,	each sequence contains 20 steps,			
(Optional)	each step of the function can be set independently, a total of 13 independent functions.					
Environme	ent		Temperature: 0~40℃;	Humidity: 20~90%RH			
Dimension W×H	×D(mm)		440×1	33×350			
Weight		9kg	13.5kg	9kg	13.5kg		



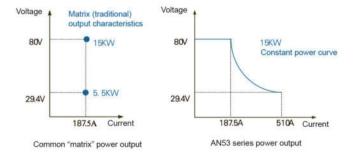
Wide Range Programmable DC Power Supply AN53(F) Series



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.

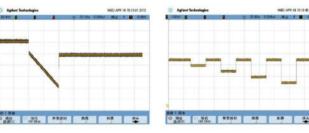


The AN53(F) Series simulates the output characteristics of solar batteries, with fast response, stable and accurate I-V curve simulation capability. It comes with built-in standard models such as SAS, EN50530, and Sandia lab for single unit operation, allowing precise simulation of photovoltaic I-V curves. 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.

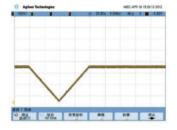
Features

- 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.

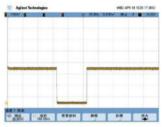


Simulation Battery Supply Voltage Sudden Drop Test

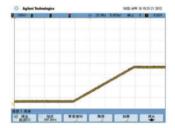
ISO16750-2 Voltage Reduction Reset Test Curve



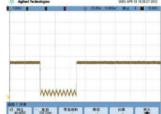
Simulation Battery Slow Drop and Slow Rise Supply Voltage Test



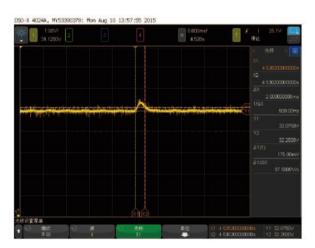
Communication Power Supply Input Sudden Drop Test



Output Voltage Rise Rate Test



ISO16750-2 Startup Voltage Curve Test



Photovoltaic Simulation Function



SAS Model Interface

Photovoltaic SAS Simulation Function

SandiaLab Model



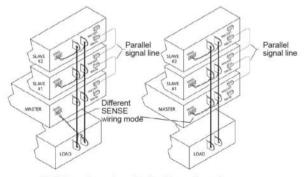
EN50530 Model Interface

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



Model		AN5380-120S(F)	AN5380-170S(F)	AN5380-170(F)	AN5380-340(F)	AN5380-510(F)			
lt	Voltage	Single phase+PE	E, 198V-242VAC	Three-ph	nase three-wire+PE, 340V-	420VAC			
Input	Frequency		47-63Hz						
	Voltage	0-80V							
Output	Current	0-120A	0-170A	0-170A	0-340A	0-510A			
	Power	0-1.8KW	0-3KW	0-5KW	0-10KW	0-15KW			
Display mo	de			4.3-inch color LCD					
Measurement error	Voltage		≤0	.05%Umax, resolution 0.01	IV				
	Current		≤0.1%lmax, resolution 0.01A (>1000A, 0.1A)						
readback accuracy)	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)							
Ripple and Noise	Vrms	30	mV	40mV					
20Hz-20MHz	Vpp	200mV			250mV				
Load effec	t	Voltage≤0.01%Umax, current≤0.05%lmax							
Power effect	ot	Voltage≤0.01%Umax, current≤0.01%lmax							
Transient respon	se time			≤2ms					
Rise time	j			30ms (10%-90%)					
Maximum lead drop co	ompensation			6.5V					
Communication contr	rol interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB						
Protection fund	ctions	2000 30 000		Itage protection, short-circuit protection, reverse connection protection, ent-limiting protection, overheating protection, and S-terminal compensation function					
Parallel connection	function	Total Discussion Suppose	It supports multiple units for parallel output to expand power/current range.						
Working enviror	nment		Temper	ature 0-40°C; Humidity 20-	90%RH				
Dimension W×H×	D(mm)	440×1	33×350		440×133×600				
Weight		16	ikg	17kg	27kg	37kg			

Model		AN53300-15S(F)	AN53300-30S(F)	AN53300-50(F)	AN53300-100(F)	AN53300-150(F)			
Input	Voltage	Single phase+PE	, 198V-242VAC	Three-pl	nase three-wire+PE, 340V	420VAC			
Input	Frequency	47-63Hz							
	Voltage		0-300V						
Output	Current	0-15A	0-15A 0-30A 0-50A 0-1		0-100A	0-150A			
	Power	0-1.8kW	0-3kW	0-5kW	0-10kW	0-15KW			
Display mod	de	***		4.3-inch color LCD					
Measurement error			≤	0.05%Umax, resolution 0.0	1V				
W	Current		≤0.1%ln	nax, resolution 0.01A (>100	0A, 0.1A)				
(readback accuracy)	Power	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)							
Ripple and Noise	Vrms		60mV						
20Hz-20MHz	Vpp			450mV					
Load effec	t	Voltage≤0.01%Umax, current≤0.05%lmax							
Power effec	ot	Voltage≤0.01%Umax, current≤0.01%Imax							
Transient respon	se time			≤2ms					
Rise time				≤30ms (10%-90%)					
Maximum lead drop co	ompensation			6.5V					
Communication contr	rol interface		Standard: RS232, RS485, CAN, and LAN, optional: GPIB, analog port, and USB						
5		In	Input undervoltage protection, short-circuit protection, reverse connection protection,						
Protection fund	ctions	output overvolta	ge and current-limiting pro	otection, overheating protec	tion, and S-terminal compe	ensation function.			
Parallel connection	function	It supports multiple units for parallel output to expand power/current range.							
Working enviror	nment		Temperature 0-40 °C; Humidity 20-90%RH						
Dimension W×H×	D(mm)	440×133	3×350		440×133×600				
Weight		16k	g	17kg	27kg	37kg			

Model		AN53500-40(F)	AN53500-80(F)	AN53500-120(F)				
la aud	Voltage		Three-phase three-wire+PE, 340V-420VAC					
Input	Frequency	47-63Hz						
	Voltage		0-500V					
Output	Current	0-40A	0-80A	0-120A				
	Power	0-5kW	0-10kW	0-15kW				
Display mo	de		4.3-inch color LCD					
Voltage			≤0.05%Umax, resolution 0.01V					
Measurement error	Current	≤0.1%lmax, resolution 0.01A (>1000A, 0.1A)						
readback accuracy)	Power	≤1	≤1%Pmax, resolution 0.001kW (>100kW, 0.01kW)					
Ripple and Noise Vrms		80mV						
20Hz-20MHz	Vpp		700mV					
Load effec	t .	Voltage≤0.01%Umax, current≤0.05%lmax						
Power effe	ct	Voltage≤0.01%Umax, current≤0.01%Imax						
Transient respon	se time		≤2ms					
Rise time			≤30ms (10%-90%)					
Maximum lead drop o	ompensation	25V						
Communication contr	rol interface	Standard: RS232	RS485, CAN, and LAN, optional: GPIB, anal	og port, and USB				
D		Input undervoltage protection, s	hort-circuit protection, reverse connection pro	tection, output overvoltage and				
Protection fund	ctions	current-limiting protect	tion, overheating protection, and S-terminal co	ompensation function.				
Parallel connection	function	It supports mul	tiple units for parallel output to expand power	current range.				
Working enviror	nment		Temperature 0-40 °C; Humidity 20-90%RH					
Dimension W×H	<d(mm)< td=""><td></td><td>440×133×600</td><td></td></d(mm)<>		440×133×600					
Weight		17kg	27kg	37kg				

Any ch	anges to	the abo	e parameter	specifications	will not be	notified	separately.

Model		AN53750-20(F)	AN53750-40(F)	AN53750-60(F)			
loout	Voltage		Three-phase three-wire+PE, 340V-420VAC				
Input	Frequency		47-63Hz				
	Voltage		0-750V				
Output	Current	0-20A	0-40A	0-60A			
	Power	0-5kW	0-10kW	0-15kW			
Display mo	de		4.3-inch color LCD				
Measurement error	Voltage		≤0.05%Umax, resolution 0.01V				
	Current	≤0.1%lmax, resolution 0.01A (>1000A, 0.1A)					
Ripple and Noise	Power	≤1%	Pmax, resolution 0.001kW(>100kW, 0.01kV	V)			
Ripple and Noise	Vrms	200mV					
20Hz-20MHz	Vpp		800mV				
Load effec	t	Voltage≤0.01%Umax, current≤0.05%lmax					
Power effe	ct	Voltage≤0.01%Umax, current≤0.01%lmax					
Transient respon	se time	≤2ms					
Rise time		≤30ms (10%-90%)					
Maximum lead drop o	ompensation	25V					
Communication cont	rol interface	Standard: RS232, F	RS485, CAN, and LAN, optional: GPIB, anal	og port, and USB			
Protection fund	ctions		tection, short-circuit protection, reverse connection protection, output overvoltage and ng protection, overheating protection, and S-terminal compensation function.				
Parallel connection	function	It supports multip	ole units for parallel output to expand power/	current range.			
Working enviro	nment	Temperature: 0-40 °C; Humidity: 20%-90%RH					
Dimension W×H	<d(mm)< td=""><td></td><td>440×133×595</td><td>w.</td></d(mm)<>		440×133×595	w.			
Weight		17kg	27kg	37kg			



Model		AN531000-40(F)	AN531500-40(F)	AN532250-20(F)		
land	Voltage		Three-phase three-wire+PE, 340V-420	VAC		
Input	Frequency					
	Voltage	0-1,000V 0-1,500V		0-2,250V		
Output	Current		0-40A	0-20A		
	Power	0-10kW 0-15kW		0-15kW		
	Voltage		≤0.05%Umax, resolution 0.01V			
Measurement error	Current		≤0.1%lmax, resolution 0.01A (>1000A, 0.1A			
(readback accuracy)	_	5	1%Pmax,	≤3%Pmax,		
	Power	resolution 0.00	resolution 0.001kW(>100kW, 0.01kW)			
Ripple and Noise	Vrms	350mV	400mV	500mV		
20Hz-20MHz	Vpp	1600mV	2400mV	2800mV		
Load effec	t	Voltage≤0.01%Umax, current≤0.05%lmax				
Power effect	ot	Voltage≤0.01%Umax, current≤0.01%lmax				
Transient respon	se time		≤2ms			
Rise time			≤30ms (10%-90%)			
Maximum lead drop co	ompensation		25V	28.5V		
Communication contr	ol interface	Standard: R	S232, RS485, CAN, and LAN, optional: GPIB	, analog port, and USB		
		Input undervolt	tage protection, short-circuit protection, revers	se connection protection,		
Protection fund	ctions	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 enviror	nment	Temperature 0-40 °C; 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
- 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.



	lodel Phase number	ANEVH100-170(F)	ANEVH100-340(F)	ANEVH100-510(F)	ANEVH300-75(F)	ANEVH300-150(F)	ANEVH300-225	
				Three-phase th	2403010000000			
Input	Voltage			342V-5	arabat.			
Output Display Voltage re Current re Power re Setting error (programming accuracy) easurement error (readback accuracy) ipple and noise 20Hz-20MHz Load effect Voltage re Transient res Forward are switchire emperature drift Noi	Frequency			45-6				
	Power factor			≥0.				
	Voltage	0-100VDC	0-100VDC	0-100VDC	0-300VDC	0-300VDC	0-300VDC	
57121 Can 5		-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	
Displa	ay mode			4.3-inch o	olor LCD			
Voltage	resolution			0.01V (>10	00V, 0.1V)			
Current	resolution		0.01A (>1000A, 0.1A)					
Power	resolution		0.001kW (>100kW, 0.01kW)					
Setting error	Voltage			≤0.05°	%F.S.			
(programming	Current			≤0.1%	%F.S.			
accuracy)	Power			≤1%	FS			
easurement error	Voltage			≤0.059	%F.S.			
(readback	Current			≤0.1%	6F.S.			
accuracy)	Power			≤1%	FS			
Ripple and noise	Vrms		40mVrms			100mVrms		
20Hz-20MHz	Vpp		250mVpp			650mVpp		
	Voltage			≤0.01%	Umax			
Load effect	Current			≤0.05%				
	Voltage			≤0.01%	2000 0 C 1001			
Power effect	Current			≤0.01%				
Voltage				≤30ms (10				
S. S				≤30HIS (H				
195.0	-			521	IIS .			
	and reverse			2ms (+90	9%-90%)			
	Voltage			0.05% se	et value			
emperature driit	Current			0.05% se	et value			
N	oise			≤65dB(A) (Measur	ing distance≥2m)			
OVF	range			110%	6F.S			
Maximum lead	drop compensation			≤5% Uma	ax (6.5V)			
	ation function		Sta	ndard: CAN/232/485/L	AN/USB, optional: G	PIB		
				tage protection, short-c				
Protection	on functions		19	miting protection and ir				
Analog inter	face (optional)		200 1011	o, stop, alarm, 0-5V or		: 1983 - 19		
	nal interfaces			Standard equipp				
	ciency			~90				
LIII	Frequency			45-6	2000			
	Power factor			≥0.				
Feedback	Switching time			≥0. ≤2r				
parameters								
	Feedback function			Full power ran				
101 11	Feedback efficiency			~90	Bill Co.			
	temperature			0-50				
	emperature			-20-7	2000			
Hu	midity			<80%, no co				
Dimension	Housing dimension			444×133	20.00.00.00.00			
	Overall dimension			482×133	30.000 (St. 100.000 (St.			
W	eight			5kw: ≤21kg 10kw: s				
				on of programming acc				
Rei	marks		2. The time required	d for the output voltage	to recover to within "	rated value±0.75%"		
		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.						

N	lodel .	ANEVH500-40(F)	ANEVH500-80(F)	ANEVH500-120(F)	ANEVH750-25(F)	ANEVH750-50(F)	ANEVH750-75(F)	
	Phase number			Three-phase thre	e-wire+PE			
Input	Voltage			342V-528	VAC			
input	Frequency			45-66H	lz			
	Power factor			≥0.99				
	Voltage	0-500VDC	0-500VDC	0-500VDC	0-750VDC	0-750VDC	0-750VDC	
Output	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	
Displa	ay mode	0.0000000000000000000000000000000000000		4.3-inch cold				
	resolution			0.01V (>1000				
	resolution			-				
	resolution		0.01A (>1000A, 0.1A) 0.001kW (>100kW, 0.01kW)					
Setting error	Voltage			≤0.05%F				
(programming	Current			≤0.1%F.				
	170,000 (350,000)							
accuracy)	Power			≤1%F\$	760			
leasurement error				≤0.05%F	entre de la constantina della			
(readback	Current			≤0.1%F.				
accuracy)	Power		4200000	≤1%F\$	5			
Ripple and noise			70mVrms			90mVrms		
20Hz-20MHz	Vpp		500mVpp			800mVpp		
Load effect	Voltage			≤0.01%U	max			
2000 011000	Current			≤0.05%lr	nax			
Power effect	Voltage			≤0.01%U	max			
1 Ower ellect	Current			≤0.01%lr	nax			
Voltage	rise time			≤30ms (10%	-90%)			
Transient r	esponse time			≤2ms				
	and reverse			2ms (+90%	-90%)			
OWILO	Voltage			0.05% set v	value			
emperature drift	Current			0.05% set v				
N.	oise			≤65dB(A) (Measuring				
	P range			110%F.				
					102			
	drop compensation		0: 1	≤5% Umax				
Communic	ation function			ard: CAN/232/485/LAN		a para de como dos escolos de con		
Protection	on functions		1 7	e protection, short-circ				
	20 10 1 10 10 10 10 10 10 10 10 10 10 10			ing protection and inte		1 10:0		
Analog inter	face (optional)		Startup, s	stop, alarm, 0-5V or 0-		tput		
Other exter	rnal interfaces			Standard equipped				
Effi	ciency			~90%				
	Frequency			45-66H	lz			
Feedback	Power factor			≥0.99				
parameters	Switching time			≤2ms				
parameters	Feedback function			Full power range	efeedback			
	Feedback efficiency			~90%				
Working	temperature			0-50				
Storage t	temperature			-20-70	С			
	midity			<80%, no cond				
	Housing dimension			444×133×7				
Dimension	Overall dimension			482×133×7				
10	eight			5kw: ≤21kg 10kw: ≤2	200000000000000000000000000000000000000			
VV	eigrit		1 The test condition	of programming accura		u is (25°C+5°C)		
Remarks			2. The time required for the output voltage to recover to within "rated value±0.75%"					
			74 77,000	load changes from 10	00/ / 500/			



N	lodel	ANEVH1000-40(F)	ANEVH1000-75(F)	ANEVH1500-40(F)	ANEVH2250-25(F)			
	Phase number	Three-phase three-wire+PE						
Innut	Voltage		342V-5	28VAC				
Input	Frequency		45-6	6Hz				
	Power factor		≥0.	.99				
	Voltage	0-1,000VDC	0-1,000VDC	0-1,500VDC	0-2,250VDC			
Output	Current	-40A-40A	-75A-75A	-40A-40A	-25A-25A			
	Power	-10KW-10KW	-15KW-15KW	-15KW-15KW	-15KW-15KW			
Displa	ay mode	4.3-inch color LCD						
700 45 CCC	resolution	0.01V (>1000V, 0.1V)						
	resolution	0.01A (>1000A, 0.1A)						
	resolution	0.001kW (>100kW, 0.01kW)						
Setting error	Voltage		≤0.05					
(programming	Current		≤0.19	04.04000				
accuracy)	Power		≤1%	10.11 20.00				
Measurement error			≤0.05%F.S.					
(readback	Current		≤0.05%F.S. ≤0.1%F.S.					
accuracy)	Power		≤0.17 ≤1%					
		200	0.000 0.00					
Ripple and noise	Vrms	300mVrms	100mVrms	200mVi	2010 201			
20Hz-20MHz	Vpp	1600mVpp	1000mVpp	2000m\	/pp			
Load effect	Voltage		≤0.01%					
	Current		≤0.059					
Power effect	Voltage		≤0.01%					
	Current		≤0.019	%lmax				
Voltage	e rise time	≤30ms (10%-90%)						
Transient r	esponse time	≤2ms						
2000	and reverse		2ms (+90	0%-90%)				
emperature drift	Voltage		0.05% s	et value				
emperature unit	Current		0.05% s	et value				
N	oise	≤65dB(A) (Measuring distance≥2m)						
OVE	range	110%F.S						
Maximum lead	drop compensation	≤5% Umax (6.5V)						
Communic	ation function	Standard: CAN/232/485/LAN/USB, optional: GPIB						
B. 10.00		Input undervoltage protection, short-circuit protection, output overvoltage,						
Protection	on functions		current-limiting protection and i	nternal overheating protection.				
Analog inter	face (optional)		Startup, stop, alarm, 0-5V or	0-10V analog control output				
	rnal interfaces		Standard equipp					
Effic	ciency		~90	0%				
	Frequency		45-6	6Hz				
<u>60</u> 2000 Mass	Power factor		≥0.	.99				
Feedback	Switching time		≤21	and an				
parameters	Feedback function		Full power rar					
	Feedback efficiency		~90	- 7				
Working	temperature		0-5	villa.				
	emperature		-20-7					
	midity		<80%, no co	V-0.00				
пи	Housing dimension		444×133					
Dimension			INTA COLUMNICA					
19-1-	Overall dimension		482×133	CONTRACTOR CONTRACTOR				
W	eight		5kw: ≤21kg 10kw:		. 5 0 1			
				curacy/readback accuracy is (25°C				
Rei	marks	2. The tim		to recover to within "rated value±	:0.75%"			
			when the load changes from	100% to 50% or vice versa.				

DC Power Supply \\ Ainuo

M	odel	ANEVH300-225(F)	ANEVH500-160(F)	ANEVH750-120(F)	ANEVH1000-80(F)	ANEVH1500-70(F)	ANEVH2250-50					
	Phase number	Three-phase three-wire+PE										
law of	Voltage			342V-528	VAC							
Input	Frequency			45-66H	lz							
3	Power factor			≥0.99								
	Voltage	0-300VDC	0-500VDC	0-750VDC	0-1,000VDC	0-1,500VDC	0-2,250VDC					
Output	Current	-225A-225A	-160A-160A	-120A-120A	-80A-80A	-70A-70A	-50A-50A					
3	Power	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW	-21KW-21KW					
Displa	y mode			4.3-inch cold								
	resolution	0.01V (>1000V, 0.1V)										
	resolution	0.01A (>1000A, 0.1A)										
102000000	resolution	0.001kW (>100kW, 0.01kW)										
Setting error	Voltage			≤0.05%F								
(programming	Current			≤0.1%F								
accuracy)	Power		≤1%FS									
easurement error	Voltage		≤0.05%F,S.									
(readback			≤0.05%F.S. ≤0.1%F.S.									
	Current				V							
accuracy) ipple and noise	Power	460-14	00.17	≤1%F3		000-14	400 14					
•	Vrms	100mVrms	80mVrms	80mVrms	220mVrms	220mVrms	400mVrms					
20Hz-20MHz	Vpp	650mVpp	750mVpp	800mVpp	1800mVpp	1800mVpp	2400mVpp					
Load effect	Voltage			≤0.01%U								
	Current			≤0.05%lr								
Power effect	Voltage			≤0.01%U	max							
	Current			≤0.01%lr	nax							
Voltage	rise time		≤30ms (10%-90%)									
Transient re	esponse time	≤2ms										
	and reverse ing time	2ms (+90%-90%)										
	Voltage			0.05% set	value							
emperature drift	Current			0.05% set value								
No	oise	≤65dB(A) (Measuring distance≥2m)										
OVP	range	110%F.S										
	rop compensation	≤5% Umax (6.5V)										
	ation function	Standard: CAN/232/485/LAN/USB, optional: GPIB										
Command	1011011011	Input undervoltage protection, short-circuit protection, output overvoltage,										
Protectio	n functions	current-limiting protection and internal overheating protection.										
Analog inter	face (optional)		The second secon									
			Startup, stop, alarm, 0-5V or 0-10V analog control output									
	nal interfaces		Standard equipped parallel port									
Епіс	iency			~90%								
	Frequency		45-66Hz									
Feedback	Power factor			≥0.99								
parameters	Switching time			≤2ms								
**************************************	Feedback function			Full power range								
	Feedback efficiency			~90%								
Working to	emperature			0-50 0	;							
Storage to	emperature			-20-70	C							
Hun	nidity			<80%, no cond	densation							
Dimension	Housing dimension			444×133×7	53mm							
Zillionoloni	Overall dimension			482×133×7	87mm							
We	eight			21kw≤39	9kg							
			1. The test condition	of programming accura	acy/readback accuracy	/ is (25°C±5°C).						
Ren	narks		2. The time required for	or the output voltage to	recover to within "rate	ed value±0.75%"						
			Ā	load changes from 10	2. The time required for the output voltage to recover to within "rated value±0.75%"							



Mo	odel	ANEVH500-240(F)	ANEVH750-180(F)	ANEVH1500-80(F)	ANEVH2250-60(F)	ANEVH80-1020(F)		
	Phase number		Т	hree-phase three-wire+PE				
Innut	Voltage			342V-528VAC				
Input	Frequency	45-66Hz						
	Power factor			≥0.99				
	Voltage	0-500VDC	0-750VDC	0-1,500VDC	0-2,250VDC	0-80VDC		
Output	Current	-240A-240A	-180A-180A	-80A-80A	-60A-60A	-1,020A-1,020A		
	Power	-30KW-30KW						
Displa	y mode			4.3-inch color LCD				
Voltage	resolution	0.01V (>1000V, 0.1V)						
	resolution	0.014 (>10004, 0.14)						
Power r	resolution		0	.001kW (>100kW, 0.01kW)				
Setting error	Voltage			≤0.05%F.S.				
(programming	Current			≤0.1%F.S.				
accuracy)	Power		≤1%FS					
easurement error	Voltage		≤0.05%F.S.					
(readback	Current			≤0.1%F.S.				
accuracy)	Power			≤0.1%F.S. ≤1%FS				
Ripple and noise	Vrms	80mVrms	80mVrms	220mVrms	400mVrms	25mVrms		
20Hz-20MHz	Vms							
ENI IZ-ZUIVITIZ		750mVpp	800mVpp	750mVpp	2400mVpp	400mVpp		
Load effect	Voltage			≤0.01%Umax		≤0.02%Umax		
	Current			≤0.05%lmax		≤0.05%lmax		
Power effect	Voltage			≤0.01%Umax		≤0.02%Umax		
***********	Current			≤0.01%lmax		≤0.05%lmax		
10.10.00.00.00.00.00.00.00.00.00.00	rise time	≤30ms (10%-90%)						
1923	esponse time	≤2ms						
	and reverse ing time	2ms (+90%-90%)						
	Voltage			0.05% set value				
emperature drift	Current	0.05% set value						
No	oise	≤65dB(A) (Measuring distance≥2m)						
OVP	range	110%F.S						
	rop compensation	≤5% Umax (6.5V)						
Communica	ation function	Standard: CAN/232/485/LAN/USB, optional: GPIB						
		Input undervoltage protection, short-circuit protection, output overvoltage,						
Protection	n functions		current-limiting protection and internal overheating protection.					
Analog interf	face (optional)			larm, 0-5V or 0-10V analog				
	nal interfaces			andard equipped parallel po				
	iency		~90			~94%		
Line	Frequency		<u> </u>	45-66Hz		34 70		
	Power factor			≥0.99				
Feedback	Switching time			≥0.99 ≤2ms				
parameters	Feedback function							
	Feedback efficiency		~9(Full power range feedback		~94%		
\\/t			~91			~94%		
	emperature			0-40°C				
	emperature			-20-70°C				
Hun	nidity		444.40	<80%, no condensation	-	444×177×696.5mn		
Dimension	Housing dimension		444×133×753mm					
typ-se-sec	Overall dimension		482×133	0000110110110001000		444×177×765mm		
We	eight		30kw:		500-00/00-00/00-00/00-00	30kw:≤50kg		
				ramming accuracy/readbac				
Ren	narks	2.	The time required for the o	output voltage to recover to	within "rated value±0.75%	%"		
			when the load of	changes from 100% to 50%	or vice versa.			



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≤
- 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.



							Dimension
Product series	Product model	Rated current	Rated power	Peak current	Peak power	Voltage range	/mm
							(W×D×H)
	ANEVT500-200C(F)	200A	60kW	300A	90KW	24V-500V	1000×1000×2100
500V Series	ANEVT500-300C(F)	300A	90kW	450A	135KW	24V-500V	1000×1000×2100
	ANEVT500-400C(F)	400A	120kW	500A	150KW	24V-500V	1000×1000×2100
	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
800V Series	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
	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
1000V Series	ANEVT1000-600C(F)	600A	200kW	750A	250KW	24V-1000V	1500×1000×2100
	ANEVT1000-800C(F)	A008	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
	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
1200V Series	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 powertrain 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.



F	Product name	1	High Power Bidirectional DC Power Supply			
	Input	method	Three-phase four-wire+PE			
	Input	voltage	Line voltage: 380V±15%			
Input	Input fr	equency	50/60Hz±5Hz			
parameter	Input power t		0.99			
	Input elect	tric harmony	3% (under rated conditions)			
	Voltage	accuracy	0.05%F.S			
	Current	accuracy	0.1%F.S			
	Power	accuracy	0.2%F.S			
Output	Powe	er effect	0.1%F.S			
parameter	Load	l effect	0.1%F.S			
	Ripple	e (Vpp)	0.2%F.S			
		ecovery time	≤3ms (10%-90% rated resistive load switching)			
	Current rise time		≤3ms (loading test after starting output)			
	7.00-00.000	ck voltage	323-437V			
	Feedback frequency		Grid frequency (45Hz-65Hz)			
1000 1000 1000	Power factor		≥0.99			
Feedback		onic content	≤3% (tested under conditions of standard AC power input with distortion within 1.5%)			
parameter		and reverse	20 % (lested direct conditions of standard AC power input with distortion within 1.0 %)			
		itching time	≤4ms			
		ck function	Full newer continuous energy feedback			
	10000		Full power continuous energy feedback			
	VVOIKII	ng mode	CV, CC, CP and CR			
	Output pr	rogramming	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			
	Emergency stop		With emergency stop button, it can quickly disconnect the connection with the load equipment			
			It can simulate functions of 7 types of batteries including ternary lithium, lithium manganese oxide,			
Product	D-Maria de della		lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride.			
feature	Battery	simulation	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.			
		p-up function	Programmable output voltage ramp-up			
	Self-discha	arge function	It has a built-in discharge unit, which automatically discharges upon shutdown.			
	Protection	on 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	Voltage	0.001V			
Display and	resolution	Current	0.001A			
operation		Power	0.001kW			
operation	Displa	y mode	LCD			
	Operati	ion mode	Number key, knob and touch screen three-in-one			
Communication	Serial i	interface	Standard RS232/RS485 (select one)			
interface	CAN ii	nterface	Supports CAN2.0 protocol (AORB). Communication data update frequency ≥50Hz			
interface	Eth	ernet	Supports Ethernet communication (standard)			
A	Analog interface		Supports external analog emergency stop switch quantity input control			
0.6.	Insulation	resistance	≥2MΩ (tested at 1,000V insulation voltage)			
Safety	Compress	ive strength	2000VDC 5mA/min			
performance	Grounding	g resistance	≤100mΩ			
	Working to	emperature	0°C-40°C			
Working	Working	humidity	20-90%RH (no condensation)			
environment	Alti	itude	≤2,000m			
		emperature	-10°C-70°C			
	Noise		≤75dB			
c	Cooling method		Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.			
	Protection level		IP21			
	. Stockon level		11 21			

Dual-channel Bidirectional DC Power SupplyANEVT 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.

Product series	Product model	Single channel	Single channel rated power	Single channel	Single channel	Single channel voltage range	Dimension /mm (W×D×H)
	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
12.000.000 nation in a	ANEVT800-600DA(F)	600A	200kW	750A	250KW	24V-800V	2000×1000×2100
800V Series	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
	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
10001/0-1	ANEVT1000-600DA(F)	600A	200kW	750A	250KW	24V-1000V	2000×1000×2100
1000V Series	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
	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
1200\/ 6	ANEVT1200-600DA(F)	600A	200kW	750A	250KW	24V-1200V	2000×1000×2100
1200V Series	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 channel	s can freely allocate	power within the over	rall power range of th	e whole unit.	



F	Product name		Dual-channel Bidirectional DC Power Supply	
	Input	method	Three-phase four-wire+PE	
Input	Input	voltage	Line voltage: 380V±15%	
parameter	Input fr	requency	50/60Hz±5Hz	
parameter	Input frequency		0.99	
			3% (under rated conditions)	
	Voltage	accuracy	0.05%F.S	
		accuracy	0.1%F.S	
	123	accuracy	0.2%F.S	
Output	100000000000000000000000000000000000000	er effect	0.1%F.S	
parameter	Load	d effect	0.1%F.S	
	10000000	e (Vpp)	0.2%F.S	
		ecovery time	≤3ms (10%-90% rated resistive load switching)	
		rise time	≤3ms (loading test after starting output)	
	27000000000	ck voltage	323-437V	
	Feedback frequency		Grid frequency (45Hz-65Hz)	
173400310000111-0010000	Power factor		≥0.99	
Feedback		onic content	≤3% (tested under conditions of standard AC power input with distortion within 1.5%)	
parameter	100000000000000000000000000000000000000	and reverse	25 % (tested dirider conditions of standard AO power input with distortion within 1.5 %)	
		itching time	≤4ms	
		ck function	Full neuron continuous energy feedback	
	(344.0) 2.12	ng mode	Full power continuous energy feedback	
	VVOIKII	ig mode	CV, CC, CP, and CR	
	Output pr	rogramming	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.	
	Emerge	ency stop	With emergency stop button, it can quickly disconnect the connection with the load equipment	
			It can simulate functions of 7 types of batteries including ternary lithium, lithium manganese oxide,	
Product			lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydride batteries.	
feature	Battery simulation		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.	
		p-up function	Programmable output voltage ramp-up	
	Self-discha	arge function	It has a built-in discharge unit, which automatically discharges upon shutdown.	
	Protection	on function	It has multiple protection devices, input protection devices, OCP, OVP, OPP, OTP,	
	(A1000 - 1200 -		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	Voltage	0.001V	
Display and	resolution	Current	0.001A	
operation		Power	0.001kW	
	Displa	ny mode	LCD	
	Operati	ion mode	Number key, knob and touch screen three-in-one	
Communication	Serial	interface	Standard RS232/RS485 (select one)	
interface	CAN i	nterface	Supports CAN2.0 protocol (AORB). Communication data update frequency ≥50Hz	
************	Eth	ernet	Supports Ethernet communication (standard)	
	Analog interface	Э	Supports external analog emergency stop switch quantity input control	
Safety	Insulation	resistance	≥2MΩ (tested at 1,000V insulation voltage)	
performance	Compress	sive strength	2,000VDC 5mA/min	
portormanoe	Grounding	g resistance	≤100mΩ	
33,732	Working ter	mperature and	0°C-40°C	
Working	working	humidity	20-90%RH (no condensation)	
environment	Altitu	ide and	≤2000m	
	storage to	emperature	-10°C-70°C	
	Noise		≤75dB	
	Cooling method		Temperature-controlled air cooling. It has a built-in temperature-controlled variable speed fan.	
	Protection level		IP21	
			7.21	







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

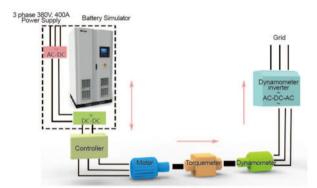
It is a photovoltaic simulation and battery simulation integrated machine. It supports CV, CC, CP and CR working modes.

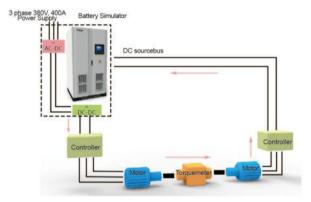
- Voltage 0.05%FS and current 0.1%FS.
- Response time≤3ms; switching time≤4ms.
- Power factor≥0.99, current harmonic distortion≤3%.
- It supports simulation of 7 types of batteries including ternary lithium, lithium iron phosphate, lithium titanium oxide, lithium cobalt oxide, lithium manganese oxide, 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.

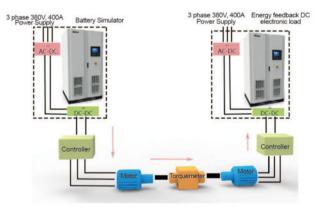
Ainuo /// DC Power Supply

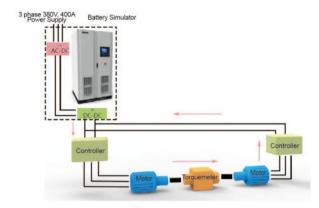
Application

- Testing of electric vehicle motors and controllers.
- Tests of electric vehicle transmission systems and powertrain 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.



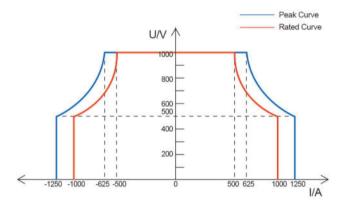






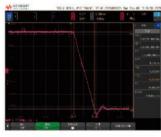
Output VI characteristic curve

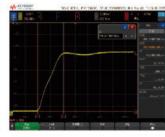
It features advanced IGBT parallel connection technology, delivering higher peak power and peak current output, as demonstrated by ANEVS1000-600C and ANEVS1000-1000C.



Fast dynamic response characteristics







							Dimension
Product series	Product model	Rated current	Rated power	Peak current	Peak power	Voltage range	/mm
							(W×D×H)
	ANEVS800-200C(F)	200A	60kW	300A	90KW	24V-800V	1000×1000×2100
	ANEVS800-300C(F)	300A	90kW	450A	135KW	24V-800V	1000×1000×210
	ANEVS800-400C(F)	400A	120kW	500A	150KW	24V-800V	1000×1000×2100
	ANEVS800-500C(F)	500A	160kW	600A	200KW	24V-800V	1500×1000×2100
800V Series	ANEVS800-600C(F)	600A	200kW	750A	250KW	24V-800V	1500×1000×2100
	ANEVS800-800C(F)	800A	300kW	1000A	375KW	24V-800V	1500×1200×220
	ANEVS800-900C(F)	900A	400kW	1125A	500KW	24V-800V	2000×1200×220
	ANEVS800-1000C(F)	1000A	500kW	1250A	625KW	24V-800V	2000×1200×220
	ANEVS800-1200C(F)	1200A	600kW	1500A	750KW	24V-800V	2000×1200×220
	ANEVS800-2000C(F)	2000A	1000kW	2500A	1250kW	24V-800V	4000×1200×220
	ANEVS1000-150C(F)	150A	60kW	225A	90kW	24V-1000V	1000×1000×210
	ANEVS1000-200C(F)	200A	90kW	300A	135KW	24V-1000V	1000×1000×210
	ANEVS1000-300C(F)	300A	120kW	375A	150KW	24V-1000V	1000×1000×2100
	ANEVS1000-500C(F)	500A	160kW	625A	200KW	24V-1000V	1500×1000×210
1000V Series	ANEVS1000-600C(F)	600A	200kW	750A	250KW	24V-1000V	1500×1000×210
	ANEVS1000-800C(F)	800A	300kW	1000A	375KW	24V-1000V	1500×1200×220
	ANEVS1000-900C(F)	900A	400kW	1125A	500KW	24V-1000V	2000×1200×220
	ANEVS1000-1000C(F)	1000A	500kW	1250A	625KW	24V-1000V	2000×1200×220
	ANEVS1000-1200C(F)	1200A	600kW	1500A	750KW	24V-1000V	2000×1200×220
	ANEVS1000-2000C(F)	2000A	1000kW	2500A	1250KW	24V-1000V	4000×1200×220
	ANEVS1200-150C(F)	150A	60kW	225A	90kW	24V-1200V	1000×1000×210
	ANEVS1200-200C(F)	200A	90kW	300A	135KW	24V-1200V	1000×1000×210
	ANEVS1200-300C(F)	300A	120kW	375A	150KW	24V-1200V	1000×1000×210
	ANEVS1200-500C(F)	500A	160kW	625A	200KW	24V-1200V	1500×1000×210
1200V Series	ANEVS1200-600C(F)	600A	200kW	750A	250KW	24V-1200V	1500×1000×210
	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	2000×1200×220
	ANEVS1200-1200C(F)	1200A	600kW	1500A	750KW	24V-1200V	2000×1200×220
	ANEVS1200-2000C(F)	2000A	1000kW	2500A	1250KW	24V-1200V	4000×1200×220
	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	3000×1000×210
1500V Series	ANEVS1500-600C(F)	600A	400kW	750A	500KW	48V-1500V	3000×1000×2100
	ANEVS1500-800C(F)	800A	600kW	1000A	750KW	48V-1500V	3000×1200×220
	ANEVS1500-1000C(F)	1000A	1000kW	1250A	1250KW	48V-1500V	4000×1200×220
	ANEVS2000-160C(F)	160A	90kW	240A	135KW	48V-2000V	1200×1200×210
	ANEVS2000-200C(F)	200A	200kW	250A	250KW	48V-2000V	2000×1000×210
	ANEVS2000-500C(F)	500A	300kW	625A	375KW	48V-2000V	3000×1000×210
2000V Series	ANEVS2000-600C(F)	600A	400kW	750A	500KW	48V-2000V	3000×1000×210
	ANEVS2000-800C(F)	800A	600kW	1000A	750KW	48V-2000V	3000×1000×2100
	ANEVS2000-1000C(F)	1000A	1000kW	1250A	1250KW	48V-2000V	4000×1200×2200



70.0	roduct name		Battery simulator			
	Input	method	Three-phase four-wire+PE			
Input	Input	voltage	Line voltage: 380V±15%			
	Input f	requency	50/60Hz+5Hz			
parameter -	Input po	ower factor	0.99			
	Input elec	tric harmony	3% (under rated conditions)			
	Voltage	accuracy	0.05%F.S			
	Current	t accuracy	0.1%F.S			
	Power	accuracy	0.2%F.S			
Output	Powe	er effect	0.1%F.S			
parameter	Load	d effect	0.1%F.S			
	Rippl	le (Vpp)	0.2%F.S			
		recovery time	≤3ms (10%-90% rated resistive load switching)			
		t rise time	≤3ms (loading test after starting output)			
		ick voltage	323-437V			
		k frequency	Grid frequency (45Hz-65Hz)			
			≥0.99			
Feedback -	Power factor Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)			
parameter -			25% (tested under conditions of standard AC power input with distortion within 1.5%)			
	Forward and reverse		≤4ms			
-		switching	Full annual analysis of the state of			
	0.0000000000000000000000000000000000000	ck function	Full power continuous energy feedback			
-	Worki	ng mode	CV, CC, CP and CR			
	Output pr	rogramming	It allows programmable output voltage waveforms, including voltage and current slopes,			
			steps, cyclic control, and jump control.			
	Emerg	ency stop	With emergency stop button, it can quickly disconnect the connection with the load equipment			
			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.			
	Battery simulation		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.			
Product			It can set parameters such as VOC, ISC, VMP, IMP, FF, etc.,			
	Photovoltaic simulation		with built-in standard curves such as Sandia and EN50530.			
feature			It supports static and dynamic photovoltaic curves, as well as settings for temperature,			
			shading, and other environmental parameters.			
	Output ram	p-up function	Programmable output voltage ramp-up			
		arge function	It has a built-in discharge unit, which automatically discharges upon shutdown.			
			It has input undervoltage protection, input overcurrent protection, input phase loss protection,			
			output overcurrent protection, output short-circuit protection, bus overvoltage protection,			
	Protecti	on function	internal overheating protection, programmable OVP LVP OCP LVP OPP protection parameter values,			
	Line drep o	componention	and enable protection functions.			
	Line drop o	compensation	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop			
	Line drop o	Voltage	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V			
Display and	0.000	Voltage Current	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A			
Display and operation	Display resolution	Voltage Current Power	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW			
	Display resolution Displa	Voltage Current Power ay mode	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD			
	Display resolution Displa Operat	Voltage Current Power ay mode	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one			
operation	Display resolution Displa Operat	Voltage Current Power ay mode	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD			
operation	Display resolution Displa Operat Serial	Voltage Current Power ay mode	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one			
operation	Display resolution Displa Operat Serial CAN	Voltage Current Power ay mode tion mode interface	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one)			
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operation Communication interface Ana	Display resolution Display Operat Serial CAN i Eth alog interface Insulation	Voltage Current Power ay mode tion mode interface interface ternet	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control			
communication interface And	Display resolution Display Operat Serial CAN i Eth alog interface Insulatior Compress	Voltage Current Power ay mode tion mode interface interface ternet resistance	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage)			
operation Communication interface And Safety performance	Display resolution Display Operat Serial CAN i Eth alog interface Insulatior Compress Groundin	Voltage Current Power ay mode ition mode interface interface interface interface sernet resistance	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min			
Communication interface And Safety performance working	Display resolution Display Operat Serial CAN is Ethalog interface Insulatior Compress Groundin Working to the solution of the	Voltage Current Power ay mode ition mode interface interface in resistance give strength g resistance temperature	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃			
operation Communication interface And Safety performance	Display resolution Display Operate Serial CAN is Ethalog interface Insulatior Compress Groundin Working to Working the Compress of the Compre	Voltage Current Power ay mode ition mode interface interface in resistance sive strength g resistance temperature g humidity	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃ 20-90%RH (no condensation)			
Communication interface And Safety performance working	Display resolution Display Operate Serial CAN is Ethalog interface Insulation Compress Groundin Working Is Working Is Alton	Voltage Current Power ay mode ition mode interface interface interface sernet n resistance gresistance temperature g humidity ititude	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃ -40 ℃ 20-90%RH (no condensation) ≤2,000m			
Communication interface And Safety performance working	Display resolution Display Operate Serial CAN in Eth alog interface Insulation Compress Grounding Working Morking Morking Storage	Voltage Current Power ay mode ition mode interface interface in resistance sive strength g resistance temperature g humidity	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃ 20-90%RH (no condensation) ≤2,000m -10 ℃-70 ℃			
Communication interface And Safety performance working environment	Display resolution Display Operate Serial CAN is Ethalog interface Insulation Compress Groundin Working Is Working Is Alton	Voltage Current Power ay mode ition mode interface interface interface sernet n resistance gresistance temperature g humidity ititude	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop 0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃ -40 ℃ 20-90%RH (no condensation) ≤2,000m			



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 equip-
- 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.



Product series	Product model	Single channel rated current	Single channel rated power	Single channel	Single channel	Single channel voltage range	Dimension /mm (W×D×H)
	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
800V Series	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
	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
1000V Series	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
	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
1200V Series	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 channel	s can freely allocate	power within the over	rall power range of th	e whole unit.	

DC Power Supply \\ Ainuo

	roduct name		Dual-channel Battery Simulator				
	Input	method	Three-phase four-wire+PE				
Input	Input	voltage	Line voltage: 380V±15%				
parameter	Input f	requency	50/60Hz+5Hz				
parameter	Input po	ower factor	0.99				
	Input elec	tric harmony	3% (under rated conditions)				
	Voltage	accuracy	0.05%F.S				
	Current	t accuracy	0.1%F.S				
		ассигасу	0.2%F.S				
Output		er effect	0.1%F.S				
parameter	Load	d effect	0.1%F.S				
		le (Vpp)	0.2%F.S				
		recovery time	≤3ms (10%-90% rated resistive load switching)				
		t rise time	≤3ms (loading test after starting output)				
-		ick voltage					
-			323-437V				
		k frequency	Grid frequency (45Hz-65Hz)				
Feedback	Power factor		≥0.99				
parameter	Total harmonic content		≤3% (tested under conditions of standard AC power input with distortion within 1.5%)				
and the supplemental states	Forward and reverse		≤4ms				
	output	switching					
	Feedba	ck function	Full power continuous energy feedback				
	Worki	ng mode	CV, CC, CP and CR				
	0		It allows programmable output voltage waveforms, including voltage				
	Output programming		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				
			It can simulate models of 7 types of batteries including ternary lithium, lithium manganese oxide,				
	Battery simulation		lithium titanium oxide, lithium cobalt oxide, lithium iron phosphate, lead-acid, and nickel-metal hydric				
			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.				
Product			It can set parameters such as VOC, ISC, VMP, IMP, FF, etc., with built-in standard curves such as				
feature	Photovolta	aic simulation	Sandia and EN50530. It supports static and dynamic photovoltaic curves, as well as				
	222 27 10		settings for temperature, shading, and other environmental parameters.				
L	Output ran	np-up function	Programmable output voltage ramp-up				
	Self-discharge function		It has a built-in discharge unit, which automatically discharges upon shutdown.				
			It has input undervoltage protection, input overcurrent protection, input phase loss protection,				
	D4+	6	output overcurrent protection, output short-circuit protection,				
	Protecti	on function	bus overvoltage protection, internal overheating protection, programmable OVP LVP OCP LVP OPP				
			protection parameter values, and enable protection functions.				
	Line drop of	compensation	It features automatic voltage drop compensation terminals, automatically compensating for cable voltage drop				
	100000000000000000000000000000000000000	compensation Voltage					
	Line drop of Display	Voltage	0.001V				
Display and	100000000000000000000000000000000000000	Voltage Current	0.001V 0.001A				
Display and operation	Display	Voltage Current Power	0.001V 0.001A 0.001kW				
	Display resolution Displa	Voltage Current Power ay mode	0.001V 0.001A 0.001kW LCD				
	Display resolution Displa Operat	Voltage Current Power ay mode	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one				
operation	Display resolution Displa Operat	Voltage Current Power ay mode tion mode interface	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one)				
operation	Display resolution Displa Operat Serial CAN	Voltage Current Power ay mode tion mode interface interface	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz				
operation ommunication interface	Display resolution Displa Operat Serial CAN	Voltage Current Power ay mode tion mode interface interface nernet	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one)				
operation ommunication interface	Display resolution Displa Operat Serial CAN	Voltage Current Power ay mode tion mode interface interface nernet	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz				
ommunication interface	Display resolution Display Operate Serial CAN Ethernalog interface	Voltage Current Power ay mode tion mode interface interface nernet	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications				
ommunication interface	Display resolution Display Operate Serial CAN Ethernalog interface Insulation	Voltage Current Power ay mode tion mode interface interface mernet	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control				
ommunication interface All Safety	Display resolution Display Operate Serial CAN Ethernalog interface Insulation Compress	Voltage Current Power ay mode tion mode interface interface nernet	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage)				
operation ommunication interface An Safety performance	Display resolution Display Operate Serial CAN Ether Insulation Compress Groundin	Voltage Current Power ay mode tion mode interface interface arrent an resistance sive strength	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min				
operation ommunication interface An Safety performance working	Display resolution Display Operate Serial CAN Ether alog interface Insulation Compress Groundin Working	Voltage Current Power ay mode tion mode interface interface n resistance give strength g resistance temperature	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃				
operation ommunication interface An Safety performance working	Display resolution Display Operated Serial CAN Ether alog interface Insulation Compress Groundin Working Working	Voltage Current Power ay mode tion mode interface interface n resistance give strength g resistance temperature g humidity	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃ 20-90%RH (no condensation)				
operation ommunication interface An Safety performance working	Display resolution Display Operated Serial CAN Ether analog interface Insulation Compress Groundin Working Working Alicentees Insulation Compress	Voltage Current Power ay mode tition mode interface interface n resistance sive strength g resistance temperature g humidity titude	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃ 20-90%RH (no condensation) ≤2,000m				
operation ommunication interface An Safety performance working	Display resolution Display Operated Serial CAN Ether Insulation Compression Groundin Working Working Storage 19	Voltage Current Power ay mode tion mode interface interface n resistance give strength g resistance temperature g humidity	0.001V 0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃-40 ℃ 20-90%RH (no condensation) ≤2,000m -10 ℃-70 ℃				
operation communication interface An Safety performance working environment	Display resolution Display Operated Serial CAN Ether analog interface Insulation Compress Groundin Working Working Alicentees Insulation Compress	Voltage Current Power ay mode tition mode interface interface n resistance g resistance temperature g humidity tittude temperature	0.001A 0.001kW LCD Number key, knob and touch screen three-in-one Standard RS232/RS485 (select one) Supports CAN2.0 protocol. Communication data update frequency ≥50Hz Supports the Ethernet communications Supports external analog emergency stop switch quantity input control ≥2MΩ (tested at 1,000V insulation voltage) 2,000VDC 5mA/min ≤100mΩ 0 ℃ -40 ℃ 20-90%RH (no condensation) ≤2,000m				