Programmable AC Power Supply AN61(F) Series





Product Introduction

The AN61(F) series AC Power Supply adopts advanced SPWM technology, DSP digital processing technology and high-power switching power supply technology, can output AC, DC, AC+DC power and provide AC load, DC load and rectification load with precise power input. It has the ability of offering 6 times peak current and is optimal test instrument of measuring the surge current, and can be used to set the angle of waveform switch for testing the surge current and output holdup time. It can also be used to set the fluctuation ratio of voltage and frequency for scanning the range of power input to be tested.

AN61(F) series product can simulate abnormal instantaneous rise, instantaneous drop, short circuit, jitter and others of electric supply, with the superposition function of harmonic waves or indirect harmonic waves, simulate the waveform distortion of electric supply, can also provide accurate and quick measurement of power parameters and harmonic waves. The AN61(F) series AC Power Supply with excellent power output quality widely applied for the labs and production lines in power electronics, military, avionics, IEC standard test and other industries.

AN61(F) series AC Power Supply possesses strong programmable function, can complete the immunity test of IEC61000-4-11(test before certification) /-4-13/-4-14/-4-28 standard. Also, its programmable output impedance, together with the power analyzer, can complete the test of IEC61000-3-2/-3-3 harmonic wave current limit and flicker and is optimal choice of IEC standard test.

Features

Advanced SPWM, DSP and high-power switching power supply, high power density

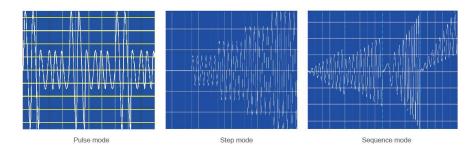
Exceeding & Trustworthy

- AC/DC/AC + DC output mode (only for AN615(F) series and AN618(F) series)
- Programmable output impedance for IEC61000-3-3 test
- IEC61000-4-11, IEC61000-4-14, IEC61000-4-28 voltage/frequency change test
- IEC61000-4-13 harmonic/sub-harmonic waveform synthe-
- I High output peak current for surge current test
- Pulse output for voltage dips test and simulation actual grid interference
- Step output. The Step test mode provides automatic switch to change the output voltage step by step instead of gradually.
- Sequence output. In sequence test mode, the output waveform is the combination of all serial number configuration. The user can edit the desired output voltage sequence on demand.
- Analog signal input interface for amplification of external signal
- LCD display, compact, light, meeting requirements of standard cabinet installation
- Standard RS232 port, optional RS485, GPIB, Ethernet port.

Applications

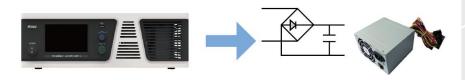
Simulate power supply input interference

Pulse, step, sequence and other output modes, simulating of any output wave in one step or continuously to simulate power grid fluctuation and kilodisturbance for testing the tested object.



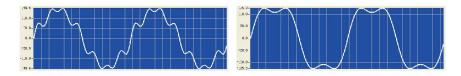
Testing of switching power supply inrush current

Free setting of start/stop angles through the output wave, peak current output up to 6 times, the AN61(F) series power supply is an ideal device for testing the inrush current of the switching power supply.



■ Harmonic and inter-harmonic synthesis (only for AN615(F) series)

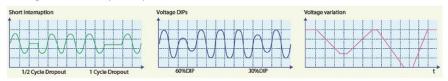
Superimposing of 2-40th harmonics and inter-harmonics, so as to conduct comprehensive harmonic simulation tests.



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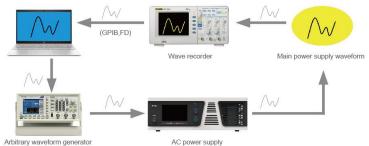
IEC Regulation test

Output of test voltage that meets IEC test conditions. Additionally, the software of host has a built-in test flow of IEC related test regulations to facilitate quick set up and use.



Free wave amplification (only for AN615(F) series and AN618(F) series)

The AN61(F) series AC test power supply can amplify power of any wave through the specific external port. The customer can record the actual wave on site using the wave recorder, and then send it to the specific external port of AN61 power supply via the wave generator for power amplification, so that the customer can simulate the actual wave on site to test the product under test.



Control software of host







2.40																	
200																	DEPOSIT
	50.00										W. N.						
0.49										CODE							
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Specifications

		Model	AN615	AN615	AN615	AN615	AN615	AN618	AN618	AN618	AN618	AN618		
	*		00-350(F)	01-350(F)	02-350(F)	04-350(F)	06-350(F)	00-350(F)	01-350(F)	02-350(F)	04-350(F)	06-350(F		
	C	apacity	500VA	1000VA	2000VA	4000VA	6000VA	500VA	1000VA	2000VA	4000VA	6000VA		
AC				90~250V		Phase Voltage:			90~250V		Phase	Voltage:		
	\	Voltage		90∼250V Single-Phase 2 wires +PE			198~250V					198~250V		
			Single-	rnase z wii	es TE	3-Phase 4 wires +PE		Single-Phase 2 wires +PE			3-Phase 4 wires +F			
Input	,	Current	8A Max	16A Max	28A Max	18A Max	25A Max	8A Max	16A Max	28A Max	18A Max	25A Ma		
	,	Julient	@90V	@90V	@90V	@198V	@198V	@90V	@90V	@90V	@198V	@198\		
	Frequency						47~	63Hz						
	Power factor #1			0.97 Min		0.98	3 Min		0.97 Min		0.9	8 Min		
	Phase						Single	e phase						
	Power		500VA	1000VA	2000VA	4000VA	6000VA	500VA	1000VA	2000VA	4000VA	6000VA		
		Range			Low ge	ear: 0.0~17	5.0V, High g	ear: 0.0~3	50.0V; Low/H	ligh/Auto				
		Resolution	0.01V											
		Accuracy	0.2%+0.2%F.S.											
	Voltage	Distortion #2	0.3%@50/60Hz; 1%@15~1000Hz											
AC		Source voltage effect #3												
Output		Load effect #4	≤0.2%											
	Effective value	0-175V	5A	10A	20A	40A	60A	5A	10A	20A	40A	60A		
	of current	0-350V	2.5A	5A	10A	20A	30A	2.5A	5A	10A	20A	30A		
	Peak current	0-175V	20A	40A	80A	160A	240A	20A	40A	80A	160A	240A		
		0-350V	10A	20A	40A	80A	120A	10A	20A	40A	80A	120A		
		Range/Resolution	July July 1001 1201											
	Frequency /Accuracy		15~1000Hz, 0.001Hz, 0.15%											
	Power		250W	500W	1000W	2000W	3000W	250W	500W	1000W	2000W	3000W		
DC	Voltage	Range			_ow gear: -2	47.5V~247	.5V, High ge	ar: -495.00\	/~495.00V;	Low/High/A	uto	,		
Output	Current	-247.5~247.5V	2.5A	5A	10A	20A	30A	2.5A	5A	10A	20A	30A		
		-495.0~495.0V	1.25A	2.5A	5A	10A	15A	1.25A	2.5A	5A	10A	15A		
	Voltage	Voltage Range/Resolution		AC: 350.00V, DC: 495.00V; 0.01V; 0.2%+0.2%F.S.										
	vollage	/Accuracy				,, 000.001,			, 0.270 0.27					
Testing		Range	24A	48A	96A	160A	240A	24A	48A	96A	160A	240A		
Acc-	Current	Resolution	0.01A											
uracy	Guireik	Accuracy of effective value	0.4%+0.6%F.S.											
		Accuracy of peak current	0.4%+0.6%F.S.											
	Power Resolution/Accuracy		0.01W; 0.4%+0.6%F.S.											
	Harmanic		2~40 times None											
	Simulation bandwidth of		2400Hz None											
Fun- ction	harmonic and interharmonic		ZHOUTZ INOTE											
	Programmable output impedance		0Ω+0μH~1Ω+1mH											
	Programming		Pulse mode, step mode, sequence mode											
	Communication		RS232(Standard)、RS485(Optional)、GPIB(Optional)、Ethernet(Optional)											
	Security 8	& EMC						CE						
Environ-	Temperature		0~40°C											
ment	Humidity		30∼90%RH											
			4	32×134×63	0	432×2	22×640		132×134×63	0	432×2	22×640		
	Dimension W	×H×D(mm)	The width does not include hanging ears(24mm);											
			The he	ight does no				0.0000000000000000000000000000000000000	he depth do		de the handl	e(50mm).		
		(Kg)	10000-10000	≤21		1	40	,	≤21			40		

Specifications

		Model	AN61700(F)	AN61701(F)	AN61702(F)	AN61704(F)	AN61706(F)						
	C	Capacity	1500VA	3000VA	6000VA	12kVA	18kVA						
					Phase Voltage:198~250V								
		Voltage	Phase voltage:190~250V Phase Voltage:198~250V 3-phase 4-wires+PE 3-Phase 4 wires+PE										
Input		Current	4A Max@190V	8A Max@190V	14A Max@190V	28A Max@190V	42A Max@198V						
	Fr	requency			47~63Hz								
	Pow	er factor #1	0.97 Min 0.98 Min										
		Phase	Three-phase & single-phase										
		Total power	1500VA	3000VA	6000VA	12kVA	18kVA						
	Power	Per phase power	500VA	1000VA	2000VA	4000VA	6000VA						
		Range	Low gear: 0.0~150.0V, High gear: 0.0~300.0V										
	3	Gear	Low gear/High gear/Auto gear										
		Resolution	0.1V										
	Voltage	Accuracy	0.2%+0.2%F.S.										
		Distortion #2	0.3%@50/60Hz; 1%@15~1000Hz										
		Source voltage effect #3	≤0.1%										
		Load effect #4	≤0.2%										
AC Output			4A(Three phase mode)	8A(Three phase mode)	16A(Three phase mode)	32A(Three phase mode)	60A(Three phase mode)						
Output	Effective value	0-150V	12A(Single phase mode)	24A(Single phase mode)	48A(Single phase mode)	96A(Single phase mode)	180A(Single phase mode)						
	of current		2A(Three phase mode)	4A(Three phase mode)	8A(Three phase mode)	16A(Three phase mode)	30A(Three phase mode)						
		0-300V	6A(Single phase mode)	12A(Single phase mode)	24A(Single phase mode)	48A(Single phase mode)	90A(Single phase mode)						
	Peak current		24A(Three phase mode)	48A(Three phase mode)	96A(Three phase mode)	192A(Three phase mode)	240A(Three phase mode)						
		0-150V	72A(Single phase mode)	144A(Single phase mode)	288A(Single phase mode)	576A(Single phase mode)	720A(Single phase mode)						
			12A(Three phase mode)	24A(Three phase mode)	48A(Three phase mode)	96A(Three phase mode)	120A(Three phase mode)						
		0-300V	36A(Single phase mode)	72A(Single phase mode)	N 855 S	288A(Single phase mode)							
	Frequency	Range	15~1000Hz(Three phase mode); 30-100Hz(Single phase mode)										
		Resolution	0.1Hz										
		Accuracy	0.15%										
		Range	300V										
	Voltage	Resolution	0.1V										
		Accuracy			0.2%+0.2%F.S.								
	Current	1704	24A(Three phase mode)	48A(Three phase mode)	96A(Three phase mode)	192A(Three phase mode)	240A(Three phase mode)						
Testing		Range	72A(Single phase mode)	144A(Single phase mode)	288A(Single phase mode)	576A(Single phase mode)	720A(Single phase mode)						
Acc- uracy		Resolution		0.01A									
		Accuracy of effective value	0.4%+0.6%F.S.										
		Accuracy of peak current			0.4%+0.6%F.S.								
		Resolution	0.1W										
	Power	Accuracy	0.4%+0.6%F.S.										
Fun-	Pro	gramming	Pulse mode, step mode, sequence mode										
ction		munication	RS232(Standard)、RS485(Optional)、GPIB(Optional)、Etherent(Optional)										
	Security&EMC		CE										
Environ		mperature	0~40℃										
Environ- ment		lumidity	30~90%RH										
	Dimension W			515×650×700		515×1075×700	515×1075×800						
		(Kg)		≤120		≤180	≤210						

Notes:

- #1. The power factor is the measurement results at rated power when the input phase voltage is 220VLN and the resistive load is used for output;
- #2. The distortion degree is the measurement result at the rated power when the output voltage is 250V and the resistive load is used;
- #3. The source effect is calculated under no load condition in one of following two cases, the input rated voltage is 380VLL, and the voltage is 420VLL.
- #4. The load effect is calculated according to the output measurement results under nominal power in the following conditions, the output voltage of 250V, no-load measurement output voltage, and resistive load;
- #5. For the FS appearing in the parameters related to AC voltage and DC voltage in the parameter table, it refers to the corresponding maximum AC and DC output voltage values given in the voltage measurement range of corresponding machine models:
- #6. For the FS appearing in parameters related to current in the parameter table, it refers to the effective value and peak value of maximum measuring current given in the current measuring range of the corresponding machine models;
- #7. For the FS appearing in parameters related to power in the parameter table, it refers to the maximum measured power value of the corresponding machine model;

The above specifications are subject to change without prior notice. Subject to the delivered power supply parameters.