AC Power Supply
ANFS(F) Series

Product Introduction

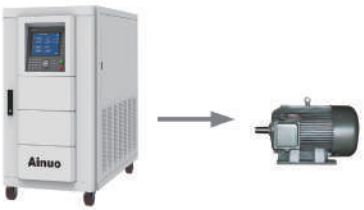
The ANFS(F) series AC power supply adopts FPGA digital control, instantaneous waveform control and high-frequency pulse width modulation (SPWM) technologies. It has the advantages of fast response speed, high output accuracy, and superior waveform quality; it can withstand 3 times the rated current impact , a variety of output modes, which can achieve "one machine with multiple functions" to meet the needs of customers for flexible use; it adopts 8-inch color LCD with exquisite and high-grade appearance, and digital keys make the operation more convenient. Mainly used in applications such as home appliances, motors and production lines. It is one solution that meets the basic needs of traditional industries and a power supply alternative for equipment upgrades. It also provides laboratories, quality inspection units, scientific research institutes and other applications more flexible power configuration scheme.

Features

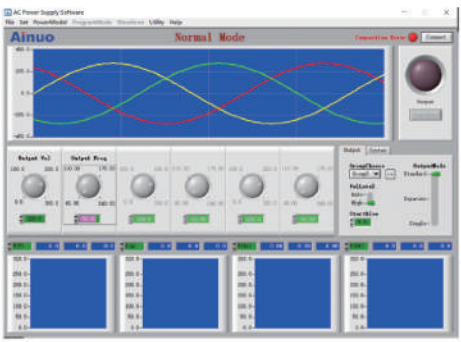
- Adopt FPGA digital technology, realize accuracy control and high quality sine wave output;
- Advanced power output mode management: standard three-phase output, separated three-phase output (three-phase voltage and frequency adjusted independently), parallel single-phase output (three phase parallel, single-phase output) to achieve multi-function;
- Operating in over current shock (up to 3 times of rated current)within 2s, start the impact load of 1/3 capacity of power supply directly;
- Adjustable voltage and frequency during output status, frequency change without transit time;
- Measurement: voltage, current, current peak, frequency, active power, apparent power, power factor, voltage peak factor;
- Online monitoring: monitor IGBT temperature, transformer temperature, fan speed, input voltage and other parameters during output status;
- Operating data recorders: keep the record of power supply status and alarm code automatically during alarming, save the maintenance time;
- Fan speed will be adjustable automatically with the temperature of power supply to reduce the noise;
- Lock key, user-friendly design, automatically locking without operation for 5 minutes to prevent from operation mistakes;
- 8-inch large-screen color LCD display, digital key operation;
- Standard RS232, optional RS485, GPIB, Ethernet, analog control and other remote communication/control.

Applications

- Over shock capacity: impact load of 1/3 capacity of power supply directly without soft start.

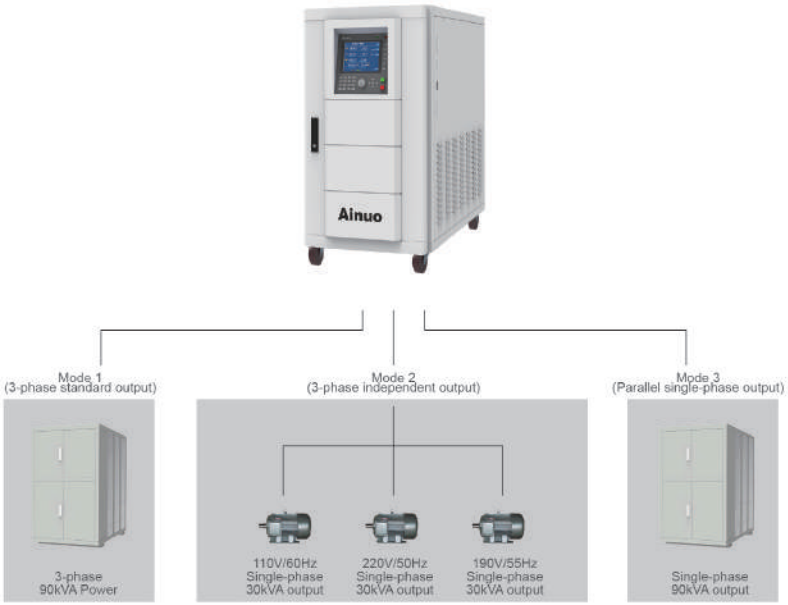


- PC control software

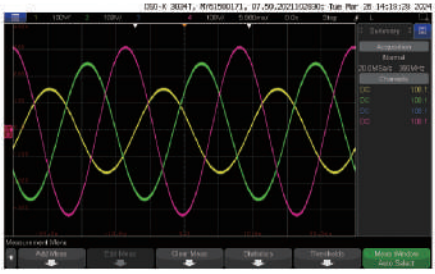


Output mode management

(standard three-phase output, separated three-phase output, parallel single-phase output)



Large-size color LCD, digital key input, knob operation



Three-phase unbalanced output
(amplitude unbalance + Angle unbalance)

Specifications

Model			ANFS015A(F)	ANFS030A(F)	ANFS045A(F)	ANFS060A(F)	ANFS090A(F)	ANFS120A(F)	ANFS180A(F)	ANFS240A(F)
Capacity			15kVA	30kVA	45kVA	60kVA	90kVA	120kVA	180kVA	240kVA
Input	Voltage，Frequency		3-phase 4-wire + PE，Phase voltage: 220V±33V, line voltage: 380V±57V，50/60Hz±3Hz							
Output	Mode		3 phase standard mode，3 phase independent mode，parallel single phase mode, 3 phase unbalanced mode							
	Voltage		Phase voltage: 0.0 ~ 300.0V，Automatic state: (low-grade) 0.0 ~ 150.0V, (high-grade) 150.1~300V； high-grade lock:0.0 ~ 300.0V							
	Frequency		40.00 ~240.00 Hz							
	3 phase standard mode rated current	110V	45.4A	90.9A	136.3A	181.8A	272.7A	363.6A	545.4A	727.2A
		220V	22.7A	45.4A	68.2A	90.9A	136.3A	181.8A	272.7A	363.6A
	3 phase inde-pendent mode rated current	110V	45.4A	90.9A	136.3A	181.8A	272.7A	363.6A	545.4A	727.2A
		220V	22.7A	45.4A	68.2A	90.9A	136.3A	181.8A	272.7A	363.6A
	parallel single phase mode rated current	110V	136.3A	272.7A	409.1A	545.4A	818.2A	1090.9A	1636.4A	2181.8A
		220V	68.2A	136.3A	204.5A	272.7A	409.1A	545.4A	818.2A	1090.9A
	Setting accuracy	Voltage	Resolution：0.1V，accuracy：0.2%×reading value+0.2%×full scale value							
		Frequency	Resolution：0.01Hz，accuracy：0.05%							
	Testing accuracy	Voltage	Resolution：0.1V，accuracy：0.2%×reading value+0.2%×full scale value							
		Frequency	Resolution：0.01Hz，accuracy：0.05%							
		Current	Resolution：0.1A/1A，accuracy：0.3%×reading value +0.3%×full scale value							
		Power	Resolution：0.1kW/0.01kW/0.001kW，accuracy：0.45%×reading value+0.45%×full scale value							
	Frequency stability		≤0.02%							
	Voltage distortion		Linear load：THD＜1%							
	Transient recovery time		20ms							
	Three phase phase difference		Three phase standard mode：120°±2°；Three-phase unbalanced mode: 0.0°~359.9°, 0.1° adjustable							
	Crest factor		1.41±0.1							
	Source voltage effect		≤1%							
	Load effect		≤1%							
	Overload capacity		105%＜output≤110% the output will be stopped within 15s；110%＜output≤200% the output will be stopped within 5s；200%＜output≤300% the output will be stopped within 2s；300%＜output the output will be stopped immediately							
	Protection mode		IGBT overheat、IGBT over current、Transformer overheat、Input under voltage、Input over voltage、Output under voltage、Output over voltage、Output over load、Output short cirluit、output over current							
Func-tion	Display mode;Start		8 inch LCD display，resolution：800*600；Soft-start time:0.0－99.9s							
	Online adjustment function		In the normal mode, the output voltage and frequency can be adjusted online							
	Memory function		Power down memory function, memory last output mode and parameters; shortcut group:10 groups							
	Line voltage crop compensation		0.000－0.500Ω							
	Communication		Standard：RS232；Optional：RS485、GPIB、Ethernet、Analog control port							
Environ-ment	Temperature and humidity		0～40℃；20～90%RH							
Dimensions (W×H×D mm)			600×1130×1018		700×1330×1218			800×1768×1418		
Weight(Kg)			280	330	470	590	780	1030	1320	1490

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

Specifications

Model			ANFS350A(F)	ANFS450A(F)	ANFS550A(F)	ANFS650A(F)
Capacity			350kVA	450kVA	550kVA	650kVA
Input	Voltage，Frequency		3-phase 4-wire + PE，Phase voltage: 220V±33V, line voltage: 380V±57V，50/60Hz±3Hz			
Output	Mode		3 phase standard mode，3 phase independent mode, 3 phase unbalanced mode			
	Voltage		Automatic state: (low-grade) 0.0 ~ 150.0V, (high-grade) 150.1~300V； high-grade lock:0.0 ~ 300.0V			
	Frequency		40.00 ~240.00 Hz			
	3 phase standard mode rated current	110V	1060A	1363A	1666A	1970A
		220V	530.3A	681.8A	833.3A	984.8A
	3 phase independent mode rated current	110V	1060A	1363A	1666A	1970A
		220V	530.3A	681.8A	833.3A	984.8A
	Setting accuracy	Voltage	Resolution：0.1V，accuracy：0.2%×reading value +0.2%×full scale value			
		Frequency	Resolution：0.01Hz，accuracy：0.05%			
	Testing accuracy	Voltage	Resolution：0.1V，accuracy：0.2%×reading value +0.2%×full scale value			
		Frequency	Resolution：0.01Hz，accuracy：0.05%			
		Current	Resolution：0.1A/1A，accuracy：0.3%×reading value +0.3%×full scale value			
		Power	Resolution：0.1kW/0.01kW/0.001kW，accuracy：0.45%×reading value +0.45%×full scale value			
	Frequency stability		≤0.02%			
	Voltage distortion		Linear load：THD＜1%			
	Transient recovery time		20ms			
	Three phase phase difference		Three phase standard mode：120°±2°； Three-phase unbalanced mode: 0.0°~359.9°, 0.1° adjustable			
	Crest factor		1.41±0.1			
	Source voltage effect		≤1%			
	Load effect		≤1%			
	Overload capacity		105%＜outputs≤110% the output will be stopped within 15s； 110%＜outputs≤200% the output will be stopped within 5s； 200%＜outputs≤300% the output will be stopped within 2s； 300%＜output the output will be stopped immediately			
	Protection mode		IGBT overheat、IGBT over current、Transformer overheat、Input under voltage、 Input over voltage、 Output under voltage、Output over voltage、Output over load、Output short cirluit、output over current			
Function	Display mode;Start		8 inch LCD display，resolution：800*600；Soft-start time:0.0 ~ 99.9s			
	Online adjustment function		In the normal mode, the output voltage and frequency can be adjusted online			
	Memory function		Power down memory function, memory last output mode and parameters; shortcut group:10 groups			
	Line voltage crop compensation		0.000 ~ 0.500Ω			
	Communication		Standard：RS232；Optional：RS485、GPIB、Ethernet、Analog control port			
Environment	Temperature and humidity		0 ~ 40℃；20 ~ 90%RH			
Dimensions (W×H×D mm)			1800×2000×1400	2400×2000×1400	3000（1400+1600）×1900×1400	
Weight (Kg)			2730	3150	4270	4660

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