

STATIC POWER SUPPLY AN17 SERIES



Introduction

AN17 series 400Hz medium frequency static variable power supply adopts new power electronic technology and specializes in aviation and other military equipment.

It is stable quality and high cost-effectiveness.

AN17 series adopts SPWM and instantaneous waveform control technology.

The waveform is pure and quality is stable. It has instantaneous shock resistance.

AN17 series also adopts modular design which is small in volume, light weight.

Features

- ★ Intelligent Control, can realize telecommunication
- ★ Automatic storage function, can remember output conditions from last start
- ★ Overload Capacity, can provide pure and reliable sinusoidal output
- ★ Waveform distortion $> 2\%$
- ★ Complete protection function
- ★ Safe Operation, Small volume, light weight
- ★ Low noise, high reliability
- ★ Good heat dissipation effect, fast output reaction speed

Regulatory Compliance

GJB 181B-2012	Aircraft power supply characteristic
GJB 572A-2006	General Requirement for Aircraft external power supply
MH/T 6018-2014	Aircraft ground static power supply
GJB 5189-2003	Testing method for parameters of aircraft power supply
GJB 1440-92	Definition and basic requirements of aircraft electrical and electronic
GJB 151B-2013	Requirements for electromagnetic emission and sensitivity of military equipment and subsystem
GJB 150.8A-2009	Environmental testing methods for military equipment Part 8 : Rainfall testing
GJB 150.9A-2009	Environmental testing methods for military equipment Part 9 : Humidity and heat tests
GB 5226.1-2009	Electrical safety mechanical Part1 : General specification
GB 4793.1-2007	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1 : General specification

Model		AN17001H	AN17003H	AN17005H	AN17010TSH	AN17015TSH	AN17020TSH	AN17030TSH	
Capacity		1kVA	3kVA	5kVA	10kVA	15kVA	20kVA	30kVA	
Input	Phase	Single phase + PE			3 Phase 4 wire + PE				
	Phase Voltage	220V ± 10%							
	Frequency	45-65Hz							
Output	Phase	Single Phase, sine wave output							
	Voltage	Rated Voltage : 115V; Adjustable range : 10V~150V							
	Frequency	Rated frequency : 400Hz ± 0.4Hz; Adjustable range : 320 ~ 480Hz							
	Cuurent	8.7A	26A	43A	87A	130A	174A	260A	
	Acuuracy	Frequency	4-digit display, 0.1Hz, 0.1%						
		Voltage	4-digit display, 0.1V, ±(0.4%×reading+0.1%×F.S.)						
		Current	4-digit display, 0.001A/0.01A, ±(0.4%×reading+0.1%×rated)						
		Power	4-digit display, 0.1W/1W, ±(0.4%×reading+0.1%×rated)						
	Frequency stability	≤0.1%							
	Total harmonic content	≤2%							
	Single harmonic content	≤1.5%							
	Crest Facotor	1.41 ± 0.10							
	Transient	Meet the requirements of MH/T 6018-1999 Figure 1							
	Voltage modulation amplitude	≤2.5V							
	Over Load	125% 600s; 150% 60s; 200% 1s. Note: the load is power factor 0.8(lag)							
	Source effect	≤1%							
	Load effect	≤1%							
	Protection	Short circuit, overload, over current, overheat, output over/under voltage							
	Impact resistant	It can withstand the starting impact of inductive load whose power is not more than 0.5 times the rated power of the power supply or the peak factor is not more than 3.0 times the rectified load, and run normally							
Function	Display	VFD Display							
	Preset	In standby state, can preset output voltage, output frequency, output voltage fluctuation value							
	Online adjustable	Output voltage, output frequency, output voltage fluctuation value can be adjusted online							
	Shortcut group	6 groups							
	Memory	Power down memory function, memory last output mode and parameters							
	Communication	Standard: RS232, optional: RS485							
	Efficiency	1kW ≥ 75% Above 3Kw (includes 3kW) : 85%							
Cooling way		Forced air cooling							
Dimension WxHxD+wheels		483 × 380 × 180+17	483 × 400 × 480+75	483 × 400 × 680+75	483 × 600 × 800+105		600 × 900 × 1000+105		
Remark		The above models indicate the use of VFD displays. tand, table, etc in style products.							

Model			AN17001ST	AN17003ST	AN17006TT	AN17009TT	AN17001ST-36V	AN17006TT-36V	
Capacity			1.5kVA	3kVA	6kVA	9kVA	1.5kVA	6kVA	
Input	Phase		Single Phase + PE			3 Phase 4 Wire + PE		Single Phase + PE 3 Phase 4 Wire + PE	
	Phase voltage		220V ±15%						
	Frequency		45~65Hz						
	Power factor		0.98						
Output	Phase		3 Phase 4 Wire + PE, Sine wave output						
	Voltage		Rated Voltage : 115V ± 2V				Rated Voltage : 36V		
			Adjustable voltage : 10V ~ 150V				Adjustable voltage : 28V ~ 43V		
	Frequency		Rated frequency Output : 400HZ ± 0.4Hz; Adjustable frequency : 320 ~ 480Hz						
	Current		4.3A	8.7A	17A	26A	24A	96A	
	Accuracy	Voltage	0.1V, ±(0.4%×reading+0.4%×F.S.); 115V±10%: ±(0.2%×reading+0.2%×F.S.)						
		Current	0.001A/0.01A, ±(0.3%×reading+0.3%×rated)						
		Frequency	0.1Hz, 0.1%						
	Frequency stability		0.1%						
	Total harmonic content		≤2%						
	Single harmonic content		≤1.5%						
	Crest factor		1.41 ± 0.05						
	Transient		Meet the requirements of GJB572A-2006 Figure 5&6						
	Voltage modulation amplitude		< 2.5V (RMS)						
	phase voltage imbalance		Maximum voltage difference between phases < 2V				Maximum voltage difference between phases < 1V		
	Phase Angle Symmetry		120° ± 2° (Under symmetric load and 1/3 unbalanced load of rated current)						
	DC component		± 0.1V						
	Overload		125% 600s; 150% 60s; 200% 1s.						
	Source effect		0.5%						
	Load effect		0.5%						
	Efficiency		≥80%						
Function	Display mode		LED Display						
	Preset		In standby state, can preset output voltage, output frequency, output voltage fluctuation value						
	Online adjustment		Output voltage, output frequency, output voltage fluctuation value can be adjusted online						
	Shortcut group		6 groups						
	Protection		Input over/under voltage(for 3 phase input only); output over current; overload; short circuit; overheat						
	Communication		Standard: RS485, optional: RS232						
	Noise		<65 dB(A) (2m)						
Cooling way			Forced air cooling						
Dimension WxDxH + caster (mm)			440 × 590 × 267+13			440 × 590 × 267+13		440 × 590 × 267+13	440 × 590 533+75
Weight			50kg	50kg	95kg	95kg	50kg	95kg	



Model		AN17030TT	AN17045TT	AN17060TT	AN17090TT	AN17120TT
Capacity		30kVA	45kVA	60kVA	90kVA	120kVA
AC Current Input	Phase	3 Phase 4 Wire + PE				
	Voltage	220V $\pm$ 15%				
	Frequency	45~65Hz				
AC Current output	Phase	3 Phase 4 Wire, Sine wave output				
	Voltage	Rated output phase voltage: 115V $\pm$ 2V; adjustable range: 10V~150V				
	Frequency	Rated output frequency: 400Hz $\pm$ 0.4Hz; adjustable range: 320Hz~480Hz				
Total harmonic content		$\leq$ 2%				
Single harmonic content		$\leq$ 1.5%				
Display resolution	Frequency	4-digit display, 0.1Hz				
	Voltage	4-digit display, 0.1V				
	Current	4-digit display, 0.1A				
Noise		$\leq$ 70dB (A)				
Phase angle symmetry		120° $\pm$ 2° (Under symmetric load and 1/3 unbalanced load of rated current)				
Over load		125% 600s; 150% 60s; 200% 1s. Note: the load is power factor 0.8(lag)				
Protection		Input/output lack phase; output over/under voltage; output over current; overload; short circuit; overheat				
Cooling way		Forced air cooling				
Memory		Power down memory function, memory last output mode and parameters				
Preset		In standby state, can preset output voltage, output frequency, output voltage fluctuation value				
Dimensions WxHxD (mm)		700 $\times$ 1300 $\times$ 1170			900 $\times$ 1600 $\times$ 1480	
Weight		300kg	500kg		600kg	