LOW Frequency Online UPS

YAG LF 50033 500kva

Three in three output

Introduction:

YAG LF 50033 500Kva medium and high power three-in three-output power frequency double conversion online intelligent fully digital UPS is a sine wave UPS that integrates digitalization, informatization and networking.

Online highly intelligent uninterruptible power supply products. It has a powerful information collection system, signal processing system and complete protection system, and has a wide range It is used in various power consumption environments, has good personalized design, friendly human-machine dialogue function, and uses advanced all-digital technology to protect computing

It ensures the safe use of electrical equipment such as machines, communication instruments, electrical facilities, and medical equipment, and comprehensively solves power outages, voltage fluctuations/sudden changes, frequency changes,

Electronic noise, lightning strikes and other electrical problems.

Scenarios:

Industrial application protection

Power supply protection for important institutions such as transportation, electric power, medical care, venues, etc.

Small data computer room

Communication Network Management Center

Office Automation

Experimental instruments and equipment

Features:

1. Automatically activate DSP digital control technology
2. High efficiency，up to 98%
3. N+X redundancy
4. Communications: Standard R232/R485 communication interface, optional SNMP/JBUS/MODBUS dry contact card, flexible networking, real-time management of UPS operation
5. Touch screen ，friendly man-machine interface，easy to operate

Specification:

MODEL			YAG LF 50033 500kva	
One	Capacity		**500Kva**	
1	input wiring		3Phase+Neutral+Ground	
2	input voltage range		400V±15%	
3	input voltage recovery		400	
4	input frequency level		50/60Hz	
5	input frequency range		45～65(Hz)	
6	Input frequency recovery		45～65Hz	
7	Bypass input voltage range		400	
8	Bypass input voltage recovery		400	
9	bypass frequency tracking range		46～54Hz/56～64Hz	
10	bypass frequency tracking recovery		46.5～53.5Hz/56.5～63.5Hz	
11	THD input current THD		<5%(fully loaded)	
12	Input power factor		>0.95（fully loaded,optional input filter）	
Two	**Output characteristic**			
1	Output rated capacity		**500Kva**	
2	Output voltage level		400V	
3	Output voltage regulation accuracy		±1%	
4	Output power factor		0.9	
5	output frequency		Mains mode：synchronize with input mains Battery mode：49.9～50.1Hz	
6	frequency tracking rate		0.5～2Hz/s	
7	Output voltage unbalance		<2%	
8	Current peak ratio		>2.5:1	
9	Waveformdistortion（full load）	Linear load	THD<2%	
		Nonlinear load	THD<4%	
10	Conversion time		Switch between mains mode and battery mode：0ms	
			Switch between mains mode and bypass mode：0ms	

11	Inverter overload capacity	In inverter mode Load rate＞150%：0.5s bypass 125%＜Load rate≤150%：1min bypass 110%＜Load rate≤125%：10min bypass 105%＜Load rate≤110%：1h bypass	
12	efficiency	Bypass mode ＞98% mains mode＞92% battery mode＞92%	
13	Output balanced voltage（DC component）	≤80mV	
14	Output voltage dynamic transient range	≤5%	
15	Transient response recovery time	≤40ms	
16	Output short circuit protection	battery mode：turn off inverter output after the currentlimit for 5S，and the alarm will sound for a long time mains mode：turn off inverter output after the current limit for 5S，do not transfer tothe bypass and give the long beeping alarm	
		Bypass mode：the input fuse blown or the circuit breaker is tripped， shut down	
17	Parallel current unbalance	≤5%	
18	Communication interface	RS-+ Intelligent Slot	
Three	**Battery protection and charging feature**		
1	Battery number	32	
2	Battery nominal voltage	384VDC	
3	Low battery alarm	368VDC	
4	Low battery alarm recovery	333.5/345/368VDC	
5	Low battery shut down	290/300/320VDC	
6	Auto restart function	In battery mode，after discharge to low voltage protection shutdown，when the mains power return to normal，UPS will auto restart	
7	Charging voltage	390Vdc/405Vdc/432Vdc	
8	Float voltage	409Vdc/423Vdc/451Vdc	
9	Charging current	10±1A	
10	Over charging voltage protection	426Vdc/441Vdc/470Vdc	
11	DC cold start characteristic	As long as DC input voltage is higher than the lowvoltage alarm protection point，UPS can start by DC cold start	
Four	**Work environment**		
1	Noise（1 meter from the front of the panel）	≤65dB	
2	Work temperature	0℃～40℃	
3	Work humidity	0～95% no condensing water droplet	
4	Storage temperature	-25℃～55℃	
5	Altitude	Less than 1000meters above ， when the distance is greater than 1500 meters，derating is required	
Five	**EMC/EMI**		
1	IEC61000-4-2(ESD)	Level 4	
2	IEC61000-4-3:(RS)	Level 3	
3	IEC61000-4-4(EFT)	Level 4	
4	IEC61000-4-5(Surge)	Level 4	
5	EMI: IEC62040-2:	Class B	
Model		500Kva	
Six	MEASURES（**W*D*H**）cm	1400*1000*1900	

Seven	TOTAL N.W. kg	1858Kg	
Eight	TOTAL G.W. kg	1898Kg	
Nine	**Other feature**		
1	Design architecturefeature	Pure online topology，sine wave output，advanced microprocessor DSP control technology，reliable performance；high input power factor，high overall efficiency，zero conversion time	
2	Over temperature protection function	When the temperature of the radiator inside the machine is higher then 85℃，turn off the inverter output，give a long beep and Switch to the bypass output，and restart the machine after the temperature in the machine drops to normal	
3	Fan intelligent protection		
3.1	Intelligent fan speed regulation	The UPS can automatically adjust the speed of the fan according to the load capacity to prolong the life of the fan。	
3.2	Fan failure detection function	When the fan is abnormal，the UPS can automatically detect and display an alarm.	
4	Battery detection	When the battery is not connected or damaged/abnormal，the UPS can automatically detect and display an alarm.	
5	Internal failsafe	When a fault occurs inside the UPS（such as abnormal inverter/BUS voltage/fan/charger machine overheating），turn off the inverter and rectifier voltage circuit，switch to bypass output and display an alarm.	
6	Input mains phase sequence detection function	In order to avoid the reversal of the phase sequence of the the UPS mains input，the machine has a phase sequence reverse detection function.	
7	Bypass output setting selection function	The UPS has a bypass output by default， and it turns anintoinverter output after it is turned on.	
8	Bypass output protection	The bypass output range of the UPS can be changed on the LCD setting to avoid damage to the user’s load equipment due to excessive bypass output voltage.	