

AC Power Supply

Frequency Conversion Power Supply  
AN97 Three phase output series



Main features

- ★ High-frequency pulse-width modulation and IGBT driver, stable sine wave to simulate various state grid conditions, clean power;
- ★ Three-phase full-bridge inverter, line voltage instantaneous feedback and RMS feedback double-loop control, stable output waveform, low waveform distortion;
- ★ Digital frequency division/Digital PLL, stable and accurate, fully isolated output, long life and injury protection;
- ★ Patented impact technology for impact loads such as resistive, capacitive, inductive and mixed loads;
- ★ Over-current, over-power, overheating and abnormalities protection, sound/light alarm;
- ★ Over/under voltage protection for internal circuits;
- ★ Online adjustable voltage/frequency to support remote PC communication control;
- ★ Provide 6 shortcut groups to save voltage, frequency and upper/lower voltage deviation settings;
- ★ Preset phase/line voltage display switching for control as required;
- ★ Line voltage compensation to line impedance loss;
- ★ Optional analog control interfaces for voltage/frequency output.

Order information and extended functions

- ★ AN97TT(F) (V4) : 0~300V/45~65Hz, capacity 15kVA、30kVA
- ★ AN97TT(F) (V3) : 0~300V/45~65Hz, capacity 45kVA、60kVA、90kVA
- ★ AN97TT(F) (V2) : 0~300V/45~65Hz, capacity 120kVA、150kVA、180kVA
- ★ Output voltage can be up to 600V, need to modify

Spec.

Three phase output frequency conversion power supply	
Output phase	3-phase 4-wire
Output voltage	Auto: (Low gear)1~150.0V, (High gear)150.1~300.0V, High gear: 1~300V
Output frequency	45~65Hz continuous, adjustable
Frequency stability	0.1%
Power effect	1%
Voltage stability	≤1%
Load effect	1%
Transient recover time	20ms
Over current protection	1.05 rated <output ≤1.1 ≤, the output is shut off within 15 Sec. 1.1 ≤ <output ≤2.0 ≤, the output is shut off within 5 Sec.
Protection mode	Short-circuit, overload and power device overheat protection
Loading capacity	Can start a inductive load which capacity is less than 0.5 rated power capacity of AC power supply, or a rectifier load which crest factor is less than 3.0
Memory function	Save the settings before turn off.
Shortcut group	6 Groups
Preset function	Under running status, output voltage can be adjustable through "+" or "-" button
Adjustment online	The output voltage and frequency can be adjusted online under running status.
Line voltage drop compensation	1-999mΩ
Input power	3-phase 4-wire 3×220V±15%
Display mode	LED 4-windows
Voltage	Resolution: 0.1V Accuracy: ±(0.8%×+0.2%×range)
Current	Resolution: 0.1A Accuracy: ± (2%×+1%×rated output)
Power	Resolution: 0.01kW Accuracy: ±5%
Communication	Standard:RS232, Optional: RS485, Remote Control

Model	AN97015TT(F)	AN97030TT(F)	AN97045TT(F)	AN97060TT(F)	AN97090TT(F)	AN97120TT(F)	AN97150TT(F)	AN97180TT(F)
Output capacity	15kVA	30kVA	45kVA	60kVA	90kVA	120kVA	150kVA	180kVA
Output current	110V	45.6A	92.0A	136.4A	182A	273A	363.6A	454.5A
	220V	22.8A	46.0A	68.2A	91A	136.5A	181.8A	227.3A
Distortion	45~65Hz, 110V/220V±10%: ≤1%, others:≤1.5%(resistive load)						2%	
Efficiency	≥87%			≥90%			≥85%	
Dimension (W×H×D)	600×900×950mm			800×1300×1200mm		800×1500×1300mm	1000×1600×1775mm	
Weight(without packaging)	290kg	300kg	470kg	500kg	560kg	1560kg	1600kg	1800kg