Programmable DC Power Supply
AN51(F) Series

Product Introduction

The AN51(F) low-power series DC power supply adopts high-frequency PWM control and phase-shifted full-bridge conversion, fast dynamic response, strong over-current capability, low output ripple, featuring compact, light, quiet, high efficiency, simple operation and cost-effective. It can be used for manufacturing, testing and maintenance of military electronic equipment such as motors, power tools, automotive electronics, chips and electronic components, switching coils and DC switches, aircraft and airborne equipment, radar, navigation, etc., as well as industrial and mining enterprises, colleges and universities laboratories, research institute, etc.

Features

▌ Colorful LCD display, digital keys， Convenient and easy for operation.

▌ 350mm deep full range of standard chassis, suitable for system integration and portable applications.

▌ High frequency PWM and full-bridge conversion technology, with high efficiency.

▌ Strong current/power overload capacity, up to 110%.

▌ Exceptional output stability.

▌ Voltage drop compensation terminal for large current output.

▌ Complete protection to ensure normal operation of power supply unit and load security.

Order and extensions

▌ AN5135-50(F)： 35V/50A/1.5kW

▌ AN5135-100(F)： 35V/100A/3kW

▌ AN5160-25(F)： 60V/25A/1.5kW

▌ AN5160-50(F)： 60V/50A/3kW

▌ AN51120-12(F)： 120V/12.5A/1.5kW

▌ AN51120-25(F)： 120V/25A/3kW

▌ AN51300-5(F)： 300V/5A/1.5kW

▌ AN51300-10(F)： 300V/10A/3kW

▌ Powerful programming features to customize the output waveform.

Simulation battery supply voltage transient drop test

ISO 16750-2 Voltage drop reset test curve

ISO 16750-2 Voltage start test curve

Simulation battery slow drop and slow rise voltage supply test

Communication power input transient drop test

Output voltage climb slope control

Safety Analyzer
AC Power Supply
DC Power Supply
Motor Test Scheme
Power Analyzer
Electronic Load

Ainuo /// **DC Power Supply** Exceeding & Trustworthy

Safety Analyzer

AC Power Supply

DC Power Supply

Motor Test Scheme

Power Analyzer

Electronic Load

Specifications

Model		AN5135-50(F)	AN5135-100(F)	AN5160-25(F)	AN5160-50(F)
Input		Single phase，220V±22V，47-63Hz			
Output	Voltage	0～35V		0～60V	
	Current	0～50A	0～100A	0～25A	0～50A
	Power	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/	Voltage	Resolution 0.01V，Accuracy≤0.2%Umax			
Accuracy	Current	Resolution 0.01A，Accuracy≤0.35%Imax			
Ripple and Noise	Vrms	30mV		60mV	
20Hz~20MHz	Vpp	200mV		300mV	
Effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax			
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax			
Transient response time		≤5ms（50%-100%，or 100%-50%，error returns to 0.75% of stable value）			
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1S			
Communication		RS-232（Standard）/485(Optional) / Analog interface（Optional）			
Protection		Output short circuit protection ,output overvoltage, overheat, S-terminal over compensation protection, S-terminal reversal protection			
List test function		Capable of storing 50 sequences, each sequence contains 20 steps,			
(Optional)		each step of the function can be set independently, a total of 13 independent functions.			
Environment		Temperature：0～40℃；Humidity：20～90%RH			
Dimension W×H×D(mm)		440×133×350			
Weight		9kg	13.5kg	9kg	13.5kg

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

Model		AN51120-12(F)	AN51120-25(F)	AN51300-5(F)	AN51300-10(F)
Input		Single phase，220V±22V，47-63Hz			
Output	Voltage	0～120V		0～300V	
	Current	0～12.5A	0～25A	0～5A	0～10A
	Power	0～1500W	0～3000W	0～1500W	0～3000W
Resolution/	Voltage	Resolution：0.1V/0.01V，Accuracy≤0.2%Umax			
Accuracy	Current	Resolution：0.01A，Accuracy≤0.35%Imax		Resolution：0.001A，Accuracy≤0.35%Imax	
Ripple and Noise	Vrms	80mV		100mV	
20Hz~20MHz	Vpp	400mV		500mV	
Effect	Voltage	Load effect≤0.1%Umax，Source effect≤0.05%Umax			
	Current	Load effect≤0.2%Imax，Source effect≤0.1%Imax			
Transient response time		≤5ms（50%-100%，or 100%-50%，error returns to 0.75% of stable value）			
Rise time 100%		On line voltage adjustment：50ms（10%-90%）；Start slow rise time：1S			
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