

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.

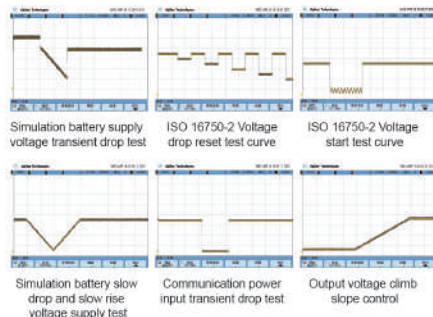
Features

- 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.



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/ Accuracy	Voltage	Resolution 0.01V, Accuracy≤0.2%U _{max}							
	Current	Resolution 0.01A, Accuracy≤0.35%I _{max}							
Ripple and Noise 20Hz~20MHz	V _{rms}	30mV			60mV				
	V _{pp}	200mV			300mV				
Effect	Voltage	Load effects0.1%U _{max} , Source effects0.05%U _{max}							
	Current	Load effects0.2%I _{max} , Source effects0.1%I _{max}							
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 (Optional)		Capable of storing 50 sequences, each sequence contains 20 steps, 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/ Accuracy	Voltage	Resolution : 0.1V/0.01V, Accuracy±0.2%U _{max}						
	Current	Resolution : 0.01A, Accuracy±0.35%I _{max}			Resolution : 0.001A, Accuracy±0.35%I _{max}			
Ripple and Noise 20Hz~20MHz	V _{rms}	80mV			100mV			
	V _{pp}	400mV			500mV			
Effect	Voltage	Load effects0.1%U _{max} , Source effects0.05%U _{max}						
	Current	Load effects0.2%I _{max} , Source effects0.1%I _{max}						
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 (Optional)		Capable of storing 50 sequences, each sequence contains 20 steps, each step of the function can be set independently, a total of 13 independent functions.						
Environment		Temperature: 0~40℃; Humidity: 20~90%RH						
Dimensions(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.