Programmable Power Supply

ET37 Series Programmable Power Supply

Linear DC power supply is wildly used in R&D testing and design verification, due to its features such as highly stable output voltage and low noise. ET37 series programmable linear DC power supplies are equipped with a 4.3” TFT color screen, with a straight-forward and simple interface, rich content and easy operation. It enjoys advantages such as stable output, low noise, high definition, high precision, etc. There are 4 output modes, providing a wide output range.

Product features:

User-friendly design

4.3” TFT LCD screen;

Wave-form display supported, real-time display of curves of output voltage and current changes;

Simple operating system, and straight-forward interface, for easy mastering;

Efficient output:

Independently adjustable output; 1-channel (ET372X)/2-channel (ET372X), adjustable output 30V/3A, 1-channel fixed output with adjustable 2.5V/3.3V/5V positions; a maximum total output power up to 195 W;

Four output modes: independent/dual output/series/parallel connection, providing wider output range, with a maximum output voltage up to 60V, and a maximum output voltage up to 6A;

High precision and high definition;

Low output ripple and noise;

Excellent load regulation and linear regulation;

Timed output function supported, up to 112 groups;

Save and Recall function, up to 10 sets of parameter configuration;

USB device interface provided, supporting SCPI remote command control;

Multiple safety protections:

Over-voltage/over-current protection functions, flexible setting of over-voltage and over-current parameters, effective protection of loads;

Secondary over-temperature protection, for double over-temperature protection by software and hardware;

Smart fan speed control, regulating fan speed according to working condition, which effectively reduce fan noise;

Protection for output polarity reversal

Keyboard lock, to prevent misoperation.

Main technical indexes

Model		ET3721 ET3728	ET3722 ET3729	ET3731 ET3738	ET3732 ET3739
Maximum power		105W(ET3721、3722) 155W(ET3728、3729)		195W(ET3721、3722) 305W(ET3728、3729)	
Channel number		2 (CH1 variable, CH2 fixed)		3 (CH1, CH2 variable, CH3 fixed)	
DC output (0℃-40℃)	Voltage/current (Rated value)	CH1：0~30V，0~3A(ET3721、3722) CH1：0~30V，0~5A（ET3728、3729）		CH1、CH2：0~30V，0~3A(ET3721、3722) CH1、CH2：0~30V,0~5A(ET3728、3729)	
	Over-voltage/over-current protection (maximum settable range)	CH1：10mV~33V，10mA~3.3A CH1：10mV~33V,10mA~5.5A		CH1、CH2：10mV~33V，10mA~3.3A CH1、CH2：10mV~33V，10mA~5.5A	
	2.5V/3.3V/5V Fixed output	Current output 0~3A(ET3721、3722、3731、3732)，Or 0~1A（ET3728、3729、3738、3739）; Output precision: ＜5%; Load regulation: ≤15*minimum scale interval; Linear regulation: ≤5*minimum scale interval; Ripple and noise (20Hz~7MHz): ≤2mVrms; Overload: 3A(ET3721、3722、3731、3732)，or 0~1A（ET3728、3729、3738、3739）; (Parameters of the fixed position are all listed. The parameters below apply to the variable positions of the voltage.)			
Linear regulation rate (±output percentage + quantity of minimum scale interval(s))					
Voltage		≤0.01%+2	≤0.005%+2	≤0.01%+2	≤0.005%+2
Current		≤0.01%+3	≤0.005%+3	≤0.01%+3	≤0.005%+3
Load regulation rate (±output percentage + quantity of minimum scale interval(s))					
Voltage		≤0.01%+2	≤0.006%+2	≤0.01%+2	≤0.006%+2
Current		≤0.05%+3	≤0.01%+3	≤0.05%+3	≤0.01%+3
Tracking operation (±output percentage + quantity of minimum scale interval(s))					
Tracking error		/		≤0.5%+10 of Master（空载）	
Parallel regulation rate	Linear	/		≤0.01%+5	
	Load	/		≤0.01%+5	
Series regulation rate	Linear	/		≤0.01%+10	
	Load	/		≤0.02%+10	
Ripple and noise (20Hz~-7MHz)					
Voltage		≤1mVrms	≤600μVrms	≤1mVrms	≤600μVrms
Current		≤1.5mArms	≤1mArms	≤1.5mArms	≤1mArms
Programming/backward reading resolution					
Voltage		1mV	1mV	1mV	1mV
Current		1mA	1mA	1mA	1mA
Programming/backward reading accuracy (±output percentage + quantity of minimum scale interval(s))					
Programming	Voltage	0.03%+10	0.02%+5	0.03%+10	0.02%+5
	Current	0.3%+10	0.3%+5	0.3%+10	0.3%+5
Backward reading	Voltage	0.03% +10	0.03% +5	0.03% +10	0.03% +5
	Current	0.3% +10	0.2% +5	0.3% +10	0.2% +5
Load transient response time					
It takes less than 50 μs for the output current to change from full load to half load, or from half load to full load and for the output voltage to recover to 15mV.					
Stability (±output percentage + quantity of minimum scale interval(s))					
Voltage		≤0.02%+10		≤0.02%+10	
Current		≤0.1%+1		≤0.1%+1	
Temperature coefficient (±output percentage + quantity of minimum scale interval(s))					
Voltage		≤0.02%+10		≤0.02%+10	
Current		≤0.02%+10		≤0.02%+10	
Other					
Command processing time		＜200ms			
Cooling method		Fan cooling			

General technical specifications

Power voltage: 100Vac+10%, 115Vac+10%, 230Vac+10% (up to 250VAC), 50-60Hz
Display: 4.3” TFT LCD, with a resolution of 480x272, and 16 M colors
Operating temperature: 0°C-40°C
Storage temperature: -10°C-70°C
Relative humidity: ＜80%
Interface: USB DEVICE
Sizes: 230mm x 380mm x 150mm (WxDxH)
Weight: 11kg

Standard accessories:

Three-core power cord: 1
Optical disc: 1
USB cable: 1
User Manual: 1