

Multiple Output Linear DC Power Supply

Multiple Output 180W~315W

Introduction

The ES2000 series are linear DC power supplies with 3 channels, 195W to 315W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. Auto series and parallel operations double output voltage and current. Heat sink and automatic cooling fan control give sufficient cooling to the power supply and minimize fan noise. The output ON/OFF control and preset voltage & current function protect the power supply and related loads from unexpected damages. The ES2000 series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

Features

- ✓ Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/0~5A x2
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

ES-2303E

ES-2305E



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Specifications

Constant voltage operation		
Line regulation		$\leq 0.01\% + 3\text{mV}$
Load regulation		$\leq 0.01\% + 3\text{mV}$ ($I \leq 3\text{A}$); $\leq 0.02\% + 5\text{mV}$ ($I > 3\text{A}$)
Ripple & Noise (5Hz~1MHz)		$\leq 1\text{mVrms}$ ($I \leq 3\text{A}$); $\leq 2\text{mVrms}$ ($I > 3\text{A}$)
Constant current operation		
Line regulation		$\leq 0.2\% + 3\text{mA}$
Load regulation		$\leq 0.2\% + 3\text{mA}$ ($I \leq 3\text{A}$); $\leq 0.2\% + 5\text{mA}$ ($I > 3\text{A}$)
Ripple & Noise		$\leq 3\text{mArms}$ ($I \leq 3\text{A}$); $\leq 6\text{mArms}$ ($I > 3\text{A}$)
Tracking operation		
Parallel	Line regulation	$\leq 0.01\% + 3\text{mV}$
	Load regulation	$\leq 0.01\% + 3\text{mV}$ ($I \leq 3\text{A}$); $\leq 0.02\% + 5\text{mV}$ ($I > 3\text{A}$)
Series	Line regulation	$\leq 0.01\% + 5\text{mV}$
	Load regulation	$\leq 300\text{mV}$
	Tracking error	$\leq 0.5\% + 10\text{mV}$ of the master, no load (with load, add load regulation $\leq 300\text{mV}$)
Display		
Voltmeter		3 digits LED display
Ammeter		3 digits LED display
Resolution		100mV/10mA
Accuracy		Real voltage and current output: $\pm(1\% \text{ reading} + 2 \text{ digits})$
		Preset voltage and current: $\pm(1\% \text{ reading} + 8 \text{ digits})$
General		
Insulation		Between base and output terminal: $\geq 20\text{M}\Omega/500\text{VDC}$
		Between base and AC power cord: $\geq 300\text{M}\Omega/500\text{VDC}$
Operating environment		0°C~40°C, $\leq 80\% \text{RH}$
Storage environment		-10°C~70°C, $\leq 70\% \text{RH}$
Power source		AC110V/220V $\pm 10\%$, 50/60Hz
Accessories		Power cord x1, Operation manual x1

Specifications are subject to change without prior notice.

