

## Dual Output 600W

### Introduction

The TP600W series are linear DC power supplies with 2 channels, 600W 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. 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 TP600W 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/0~10A x2 (TP-30102), 0~60V/0~5A x2 (TP-60052)
- ✓ 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
- ✓ Preset function, setting of voltage and current with output open circuit
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

### Product photo



TP-30102

## 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		
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		$0^\circ\text{C} \sim 40^\circ\text{C}$ , $\leq 80\%\text{RH}$
Storage environment		$-10^\circ\text{C} \sim 70^\circ\text{C}$ , $\leq 70\%\text{RH}$
Power source		AC110V/220V $\pm 10\%$ , 50/60Hz
Accessories		Power cord x1, Operation manual x1

## Selection guide

Model	TP-30102	TP-60052
Output voltage	0~30V x2	0~60V x2
Output current	0~10A x2	0~5A x2
Voltmeter	3 digits LED	3 digits LED
Ammeter	4 digits LED	3 digits LED
Resolution	100mV/10mA	100mV/10mA
Fixed output		
Preset V&I	√	√
Output ON/OFF	√	√
Tracking operation	√	√
Dimension (WxHxD)	255x155x460mm	255x155x460mm
Weight	16kg	16kg

Specifications are subject to change without prior notice.

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