

# Multiple Output Linear DC Power Supply

## 600W Series



100mV  
10mA



### ► Introduction

The MP600W 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 MP600W 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 × 2 (MP-3010D), 0~60V/0~5A × 2 (MP-6005D)
- ✓ Constant voltage and constant current operations
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ Preset voltage and current
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

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	$\leq 1\text{mVrms}$ ( $I \leq 3\text{A}$ ); $\leq 2\text{mVrms}$ ( $I > 3\text{A}$ )	
Temperature co-efficient	$\leq 300\text{ppm}/^\circ\text{C}$	
Recovery time	$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)	
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	4 digits LED display	
Resolution	100mV/10mA	
Accuracy	$\pm(1\% \text{ reading} + 2 \text{ digits})$	
Protection	Over load and reverse polarity protections	
Power source	AC110V/220V $\pm 10\%$ selectable, 50/60Hz	
Operating environment	0°C~40°C, $\leq 80\% \text{RH}$	
Storage environment	-10°C~70°C, $\leq 70\% \text{RH}$	
Accessories	Power cord $\times 1$ , Operation manual $\times 1$ , Test lead $\times 1$	

### Multiple Output Linear DC Power Supply 600W

Model	MP-3010D	MP-6005D
Output voltage	0~30V $\times 2$	0~60V $\times 2$
Output current	0~10A $\times 2$	0~5A $\times 2$
Fixed output		
Preset V&I	√	√
Output ON/OFF	√	√
Tracking operation	√	√
Dimension	260 $\times$ 160 $\times$ 460mm	260 $\times$ 160 $\times$ 460mm
Weight	16kg	16kg