

MPS-3003LP-3(30V/3A X 2, FIXED 5V/3A)  
 MPS-3005LP-3(30V/5A X 2, FIXED 5V/3A)



## Features:

- \*0-30V, 0-3A/5A Dual Channels adjustable and one fixed 5V/3A output
- \*Overload Protection
- \*Constant Voltage, Constant Current, Low ripple noise, Low temperature drift
- \*Pre-set current limited point
- \*In tracking mode, both outputs are automatically connected in series or parallel without extra cables
- \*In series mode, machine can be connected as positive and negative supply
- \*Multi tune potentiometers, easy to setup voltage
- \*High efficient toroidal transformer
- \*Dual Color four LED Digital Panel Meters Voltages and Current Display
- \*MPS-3003LP-3 has out control and presetting function

## Specifications:

Output Voltage: 0 ~ 30V  
 Maximum output current: 3A/5A  
 Power supply: 110V/220V switch selectable

### \*Operation Mode

Independent: Two independent outputs and 5V fixed output, Output from 0 to rating Voltages and 0 to rating Amperes.

Series: Output from 0 to rating voltages at rating amperes each  
 Output from 0 to double rating voltages at rating amperes

Parallel: Output from 0 to double rating amperes at rating voltage, Constant Voltage Operation

### \*Constant Voltage Operation

Output current range: 0 ~ rating voltage continuously adjustable

### \*Voltage

Line regulation:  $\leq 0.01\% + 3mV$

Load regulation:  $\leq 0.01\% + 3mV$ (rating current  $\leq 3A$ )  
 $\leq 0.02\% + 5mV$ (rating current  $> 3A$ )

Recovery time:  $\leq 100\mu s$

Ripple & Noise:  $\leq 1mVrms$  (5Hz ~ 1MHz)

Temperature coefficient:  $\leq 300ppm/V^{\circ}C$

Constant Current Operation

Output Current Range: 0 ~ rating current continuously adjustable

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### \*Current

Line regulation:  $\leq 0.2\% + 3mA$   
 Load regulation:  $\leq 0.2\% + 3mA$   
 Ripple current:  $\leq 3mArms$

### \*Tracking Operation

Parallel operation:

Line regulation:  $\leq 0.01\% + 3mA$   
 Load regulation:  $\leq 0.01\% + 3mA$ (rating current  $\leq 3A$ )  
 $\leq 0.02\% + 5mA$ (rating current  $> 3A$ )

Series operation:

Line regulation:  $\leq 0.01\% + 5mV$   
 Load regulation:  $\leq 300mV$

Positive and Negative supply: Slave tracking error  $\leq 0.5\% + 10mV$  of the master(No load, with load add loadregulation  $\leq 300mV$ )

### \*Meter

Display: 3Digits panel meter  
 Voltmeter Accuracy:  $\pm 0.5\%$  of rdg+2digits  
 Ammeter Accuracy:  $\pm 1\%$  of rdg+2digits

### \*Fixed 5V/3A Output specifications

Line regulation:  $\leq +5mV$   
 Load regulation:  $\leq +10mV$   
 Ripple & Noise:  $\leq 2mVrms$   
 Voltage Accuracy:  $5V \pm 0.25V$   
 Output current: 3A

Operation Temperature & Humidity:  $0^{\circ}C \sim 40^{\circ}C < 80\%$

Storage Temperature & Humidity:  $-10^{\circ}C \sim 70^{\circ}C < 70\%$