

# Quad-Output DC Power Supply **TENMA™**



## Features:

- Quad Independent DC Output
- Four LED Display with 3 digits, selectable for two sets output voltage and current display simultaneously
- Auto series, parallel and tracking operation
- Constant voltage and constant current operation
- Low ripple and noise
- Overload and reverse polarity protection
- Selectable for continuous / dynamic load
- Output enable / disable control
- Rotation speed of the fan is controlled by heatsink temperature

## Specifications:

| Output                    | CH1, CH2    | CH3       | CH4       |
|---------------------------|-------------|-----------|-----------|
| Voltage                   | : 0 to 30 V | 3 to 6 V  | 8 to 15 V |
| Current                   | : 0 to 3 A  | 1 A Fixed | 1 A Fixed |
| Tracking Series Voltage   | : 0 to 60 V |           |           |
| Tracking Parallel Current | : 0 to 6 A  | -----     |           |

### Constant Voltage Operation (CH1, CH2)

|                  |                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Line Regulation  | : $\leq 0.01\% + 3 \text{ mV}$                                                                                                            |
| Load Regulation  | : $\leq 0.01\% + 3 \text{ mV}$ (rating current $\leq 3 \text{ A}$ )<br>$\leq 0.02\% + 5 \text{ mV}$ (rating current $\leq 10 \text{ A}$ ) |
| Ripple and Noise | : $\leq 1 \text{ mVrms}$ 5 Hz to 1 MHz                                                                                                    |
| Recovery Time    | : $\leq 100 \mu\text{s}$ (50% load change, minimum load 0.5 A)                                                                            |

### Constant Current Operation (CH1, CH2)

|                  |                               |
|------------------|-------------------------------|
| Line Regulation  | : $\leq 0.2\% + 3 \text{ mA}$ |
| Load Regulation  | : $\leq 0.2\% + 3 \text{ mA}$ |
| Ripple and Noise | : $\leq 3 \text{ mArms}$      |

### Tracking Operation (CH1, CH2)

|                   |                                              |
|-------------------|----------------------------------------------|
| Tracking Error    | : $\leq 0.5\% + 10 \text{ mV}$ of the master |
| Series Regulation | : $\leq 300 \text{ mV}$                      |
| Load Regulation   | : $\leq 0.01\% + 3 \text{ mV}$               |
| Ripple and Noise  | : $\leq 2 \text{ mVrms}$ 5 Hz to 1 MHz       |

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## 3 V to 6 V Output (CH3)

Line Regulation :  $\leq 5$  mV  
Load Regulation :  $\leq 10$  mV  
Ripple and Noise :  $\leq 2$  mVrms, 5 Hz to 1 MHz  
Voltage Accuracy :  $\pm 5\%$  rdg  
Current Output : 1 A

## 8 V to 15 V Output (CH4)

Line Regulation :  $\leq 5$  mV  
Load Regulation :  $\leq 10$  mV  
Ripple and Noise :  $\leq 2$  mVrms, 5 Hz to 1 MHz  
Voltage Accuracy :  $\pm 5\%$  rdg  
Current Output : 1 A

## Meter

3 digits 0.5 inches LED display  
Accuracy :  $\pm(0.5\% \text{ rdg} + 2 \text{ digits})$

## Insulation

Chassis and Terminal :  $\geq \text{DC } 500 \text{ V} / 20 \text{ M}\Omega$   
Chassis and ac Cord :  $\geq \text{DC } 500 \text{ V} / 30 \text{ M}\Omega$

## Power Source

ac 100 V / 120 V / 220 V  $\pm 10\%$ , 230 V  $\pm 10\%$  to  $-6\%$ , 50 / 60 Hz

## Accessories

Instruction manual  
Power cord  
Four Test Leads

## Dimensions and Weight

255 (W)  $\times$  145 (H)  $\times$  265 (D) mm, approximately 11.5 kg

## Part Number Table

| Description          | Part Number |
|----------------------|-------------|
| PSU, Bench, 4 Output | 72-6905     |

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