

## Single Output 90W~185W

### Introduction

The TP1000 series are linear DC power supplies with 2 channels, 95W to 185W output. The TP1000C/1000EC series provide a simpler option of only 1 channel, 90W to 180W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. The output ON/OFF control and coarse/fine control enables safe and easy operation. The TP1000C/1000EC series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

### Features

- ✓ Constant voltage and constant current operations
- ✓ Auto CV and CC switch
- ✓ Output ON/OFF control
- ✓ High efficiency, light and compact design
- ✓ High power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color two digital panel meters

### Product photo



TP-1303



TP-1303EC

# Single Output Linear DC Power Supply



## Specifications

| Rated output                      | 0~30V/0~3A                         | 0~30V/0~5A | 0~60V/0~3A |
|-----------------------------------|------------------------------------|------------|------------|
| <b>Constant voltage operation</b> |                                    |            |            |
| Line regulation                   | ≤0.01%+3mV                         | ≤0.01%+3mV | ≤0.01%+5mV |
| Load regulation                   | ≤0.01%+3mV                         | ≤0.02%+5mV | ≤0.02%+5mV |
| Ripple & Noise (5Hz~1MHz)         | ≤3mVrms                            |            |            |
| <b>Constant current operation</b> |                                    |            |            |
| Line regulation                   | ≤0.2%+3mA                          |            |            |
| Load regulation                   | ≤0.2%+3mA                          | ≤0.2%+5mA  | ≤0.2%+3mA  |
| <b>Fixed output</b>               |                                    |            |            |
| Output voltage                    | 5V±1%                              |            |            |
| Output current                    | 1A                                 |            |            |
| Ripple & noise (5Hz~1MHz)         | ≤3mVrms                            |            |            |
| <b>Display</b>                    |                                    |            |            |
| Voltmeter                         | 3 digits LED display               |            |            |
| Ammeter                           | 3 digits LED display               |            |            |
| Resolution                        | 100mV/10mA                         |            |            |
| Accuracy                          | ±(1% reading+2 digits)             |            |            |
| <b>General</b>                    |                                    |            |            |
| Operating environment             | 0°C~40°C, ≤80%RH                   |            |            |
| Storage environment               | -10°C~70°C, ≤70%RH                 |            |            |
| Power source                      | AC110V/220V±10%, 50/60Hz           |            |            |
| Accessories                       | Power cord x1, Operation manual x1 |            |            |

## Selection guide

| Model             | TP-1303       | TP-1305 | TP-1603 | TP-1303C | TP-1305C | TP-1603C | TP-1303EC | TP-1305EC | TP-1603EC |
|-------------------|---------------|---------|---------|----------|----------|----------|-----------|-----------|-----------|
| Output voltage    | 0~30V         | 0~30V   | 0~60V   | 0~30V    | 0~30V    | 0~60V    | 0~30V     | 0~30V     | 0~60V     |
| Output current    | 0~3A          | 0~5A    | 0~3A    | 0~3A     | 0~5A     | 0~3A     | 0~3A      | 0~5A      | 0~3A      |
| Fixed output      | 5V/1A         | 5V/1A   | 5V/1A   |          |          |          |           |           |           |
| Preset V&I        |               |         |         |          |          |          |           |           |           |
| Output ON/OFF     | √             | √       | √       | √        | √        | √        |           |           |           |
| Dimension (WxHxD) | 130x160x255mm |         |         |          |          |          |           |           |           |
| Weight            | 5 kg          | 6 kg    | 6 kg    | 5 kg     | 6 kg     | 6 kg     | 4.5 kg    | 5.5 kg    | 5.5kg     |

## Single Output 300W/600W

### Introduction

The TP300W/600W series are linear DC power supplies with 1 channel, 300W/600W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. The output ON/OFF control and coarse/fine control enables safe and easy operation. The TP300W/600W series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

### Features

- ✓ Constant voltage and constant current operations
- ✓ Auto CV and CC switch
- ✓ Output ON/OFF control
- ✓ **Preset function, setting of voltage and current with output open circuit** (TP-3020/6010)
- ✓ High efficiency, light and compact design
- ✓ High power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color two digital panel meters

### Product photo

TP-3010



TP-3020



# Single Output Linear DC Power Supply



## Specifications

| Model                             | TP-3010   | TP-6005                    | TP-3020                     | TP-6010                    |
|-----------------------------------|---|----------------------------|-----------------------------|----------------------------|
| <b>Constant voltage operation</b> |   |                            |                             |                            |
| Line regulation                   | $\leq 0.01\% + 5\text{mV}$  | $\leq 0.01\% + 5\text{mV}$ | $\leq 0.01\% + 10\text{mV}$ | $\leq 0.01\% + 5\text{mV}$ |
| Load regulation                   | $\leq 0.02\% + 5\text{mV}$  | $\leq 0.02\% + 5\text{mV}$ | $\leq 0.02\% + 10\text{mV}$ | $\leq 0.02\% + 5\text{mV}$ |
| Ripple & Noise (5Hz~1MHz)         | $\leq 3\text{mVrms}$  |                            |                             |                            |
| <b>Constant current operation</b> |   |                            |                             |                            |
| Line regulation                   | $\leq 0.2\% + 3\text{mA}$   |                            |                             |                            |
| Load regulation                   | $\leq 0.2\% + 3\text{mA}$ ( $I \leq 3\text{A}$ )<br>$\leq 0.2\% + 5\text{mA}$ ( $I > 3\text{A}$ )<br>$\leq 0.2\% + 15\text{mA}$ ( $I \geq 10\text{A}$ )     |                            |                             |                            |
| Ripple & Noise (5Hz~1MHz)         | $\leq 3\text{mA}_{\text{rms}}$ ( $I \leq 3\text{A}$ )<br>$\leq 10\text{mA}_{\text{rms}}$ ( $I > 3\text{A}$ )  |                            |                             |                            |
| <b>Display</b>                    |   |                            |                             |                            |
| Accuracy                          | Real voltage and current output: $\pm(1\% \text{ reading} + 2 \text{ digits})$<br>Preset voltage and current: $\pm(1\% \text{ reading} + 8 \text{ digits})$ |                            |                             |                            |
| <b>General</b>                    |   |                            |                             |                            |
| 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-3010       | TP-6005      | TP-3020       | TP-6010      |
|-------------------|---------------|--------------|---------------|--------------|
| Output voltage    | 0~30V         | 0~60V        | 0~30V         | 0~60V        |
| Output current    | 0~10A         | 0~5A         | 0~20A         | 0~10A        |
| Voltmeter         | 3 digits LED  | 3 digits LED | 3 digits LED  | 3 digits LED |
| Ammeter           | 3 digits LED  | 3 digits LED | 3 digits LED  | 3 digits LED |
| Resolution        | 100mV/10mA    | 100mV/10mA   | 100mV/100mA   | 100mV/10mA   |
| Fixed output      |               |              |               |              |
| Preset V&I        |               |              | √             | √            |
| Output ON/OFF     | √             | √            | √             | √            |
| Dimension (WxHxD) | 255x155x370mm |              | 255x155x330mm |              |
| Weight            | 10kg          | 10kg         | 14kg          | 14kg         |

Specifications are subject to change without prior notice.