

## Multiple Output 180W~315W

### Introduction

The TP2000 and TP2000TK series are linear DC power supplies with 3 channels, 195W to 315W 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. Heat sink and 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 TP2000 and TP2000TK 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/0~3A x2, 0~30V/0~5A x2, one fixed output 5V/3A x1
- ✓ 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 (TP-2303TK/2305TK)**
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

### Selection guide

Model	TP-2303E TP-2305E	TP-2303C TP-2305C	TP-2303K TP-2305K	TP-2303 TP-2305	TP-2303TK TP-2305TK
<b>Output voltage</b>	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2
<b>Output current</b>	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2
<b>Fixed output</b>		5V/3A	5V/3A	5V/3A	5V/3A
<b>Preset V&amp;I</b>					✓
<b>Output ON/OFF</b>			✓	✓	✓
<b>Tracking operation</b>	✓	✓	✓	✓	✓
<b>Dimension (WxHxD)</b>	255x155x330mm			255x155x370mm	
<b>Weight</b>	7kg/9kg	7kg/9kg	7kg/9kg	8kg/10kg	8kg/10kg

# Multiple Output Linear DC Power Supply

## Product photo

TP-2303E		
TP-2303C		
TP-2303K		
TP-2303		
TP-2305TK		

# Multiple Output Linear DC Power Supply



## Specifications

Constant voltage operation		
Line regulation	≤0.01%+3mV	
Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)	
Ripple & Noise (5Hz~1MHz)	≤1mVrms (I≤3A); ≤2mVrms (I>3A)	
Constant current operation		
Line regulation	≤0.2%+3mA	
Load regulation	≤0.2%+3mA (I≤3A); ≤0.2%+5mA (I>3A)	
Ripple & Noise	≤3mArms (I≤3A); ≤6mAmps (I>3A)	
Tracking operation		
Parallel	Line regulation	≤0.01%+3mV
	Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)
Series	Line regulation	≤0.01%+5mV
	Load regulation	≤300mV
	Tracking error	≤0.5%+10mV of the master, no load (with load, add load regulation ≤300mV)
Auxiliary output (fixed)		
Output voltage	5V±0.25V	
Output current	3A	
Load regulation	≤25mV @110/220VAC rated input	
Ripple & noise (5Hz~1MHz)	≤2mVrms	
Display		
Voltmeter	3 digits LED display	
Ammeter	3 digits LED display	
Resolution	100mV/10mA	
Accuracy	Real voltage and current output: ±(1% reading+2 digits)	
	Preset voltage and current: ±(1% reading+8 digits)	
General		
Insulation	Between base and output terminal: ≥20MΩ/500VDC	
	Between base and AC power cord: ≥300MΩ/500VDC	
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	

## Multiple Output 195W~325W

### Introduction

The TP2000PU series are linear DC power supplies with 3 channels, 195W to 325W 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. A particular feature of the TP2000PU series is the USB output with fixed 5V/2A. The USB 5V/2A output can be used for charging various small electronic devices and for some special logic circuits. The output ON/OFF control and preset voltage & current function protect the power supply and related loads from unexpected damages. The TP2000PU 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/0~3A x2, 0~30V/5A x2, 0~50V/0~3A x2
- ✓ Fixed 2.5V/3.3V/5V/3A binding post output, and fixed 5V/2A USB output
- ✓ 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 (TP-2303PU/2305PU/2503PU)**
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters
- ✓ SMD PCB, high quality, high reliability

### Product photo

TP-2303PU



TP-2303N



# Multiple Output Linear DC Power Supply



## Specifications

Rated output		0~30V/0~3A	0~30V/0~5A	0~50V/0~3A
<b>Constant voltage operation</b>				
Line regulation		≤0.01%+3mV		
Load regulation		≤0.01%+3mV	≤0.02%+5mV	≤0.01%+3mV
Ripple & Noise (5Hz~1MHz)		≤1mVrms	≤2mVrms	≤1mVrms
<b>Constant current operation</b>				
Line regulation		≤0.2%+3mA		
Load regulation		≤0.2%+3mA	≤0.2%+5mA	≤0.2%+3mA
Ripple & Noise		≤3mA rms	≤6mA rms	≤3mA rms
<b>Tracking operation</b>				
Parallel	Line regulation	≤0.01%+3mV		
	Load regulation	≤0.02%+5mV		
Series	Line regulation	≤0.01%+5mV		
	Load regulation	≤300mV		
<b>Auxiliary output (CH3)</b>				
Load regulation		≤25mV @110/220VAC rated input		
Ripple & Noise (5Hz~1MHz)		≤2mVrms		
<b>Display</b>				
Voltmeter		3 digits LED display		
Ammeter		3 digits LED display		
Resolution		100mV/10mA		
Accuracy		Real voltage and current output: ±(1% reading+2 digits)		
		Preset voltage and current: ±(1% reading+8 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-2303N	TP-2305N	TP-2503N	TP-2303PU	TP-2305PU	TP-2503PU
<b>Output voltage</b>		0~30V x2	0~30V x2	0~50V x2	0~30V x2	0~30V x2	0~50V x2
<b>Output current</b>		0~3A x2	0~5A x2	0~3A x2	0~3A x2	0~5A x2	0~3A x2
Fixed output	CH3	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A
USB					5V/2A	5V/2A	5V/2A
<b>Preset V&amp;I</b>					√	√	√
<b>Output ON/OFF</b>		√	√	√	√	√	√
<b>Tracking operation</b>		√	√	√	√	√	√
<b>Dimension (WxHxD)</b>		255x155x310mm					
<b>Weight</b>		8kg	9.5kg	9.5kg	8.5kg	10kg	10kg

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## 4CH Output 210W~330W

### Introduction

The TP4000N series are linear DC power supplies with 4 channels, two main channels with 0~30V/0~50V output and two auxiliary channels with 2.2~15V output. Auto series and parallel operations double output voltage and current in the main channels (CH1/CH2). Auxiliary channels (CH3/CH4) can also be connected through external test leads to 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 TP4000N series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

### Features

- ✓ Two main channels with 0~30V/0~3A x2, 0~30V/5A x2, 0~50V/0~3A x2 output
- ✓ Two auxiliary channels with 2.2~15V/1A x2 output
- ✓ 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
- ✓ SMD PCB, high quality, high reliability

### Product photo

TP-4303N



# Multiple Output Linear DC Power Supply



## Specifications

Model	TP-4303N	TP-4305N	TP-4503N
<b>Constant voltage operation</b>			
Line regulation	≤0.01%+3mV		
Load regulation	≤0.01%+3mV	≤0.02%+5mV	≤0.01%+3mV
Ripple & Noise (5Hz~1MHz)	≤1mVrms	≤2mVrms	≤1mVrms
<b>Constant current operation</b>			
Line regulation	≤0.2%+3mA		
Load regulation	≤0.2%+3mA	≤0.2%+5mA	≤0.2%+3mA
Ripple & Noise	≤3mA rms	≤6mA rms	≤3mA rms
<b>Tracking operation</b>			
Parallel	Line regulation Load regulation	≤0.01%+3mV ≤0.02%+5mV	
Series	Line regulation Load regulation	≤0.01%+5mV ≤300mV	
<b>Auxiliary output (CH3/CH4)</b>			
Output voltage	2.2V~15V		
Output current	Fixed 1A		
Load regulation	≤25mV@110V/220Vac rated input		
Ripple & noise (5Hz~1MHz)	≤2mVrms		
<b>Display</b>			
Voltmeter	3 digits LED display		
Ammeter	3 digits LED display		
Resolution	100mV/10mA		
Accuracy	Real voltage and current output: ±(1% reading+2 digits) Preset voltage and current: ±(1% reading+8 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-4303N	TP-4305N	TP-4503N
<b>Output voltage</b>	0~30V x2	0~30V x2	0~50V x2
<b>Output current</b>	0~3A x2	0~5A x2	0~3A x2
<b>Auxiliary output</b>	2.2~15V/1A x2	2.2~15V/1A x2	2.2~15V/1A x2
<b>Preset V&amp;I</b>	√	√	√
<b>Output ON/OFF</b>	√	√	√
<b>Tracking operation</b>	√	√	√
<b>Dimension (WxHxD)</b>	255x155x310mm		

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# Multiple Output Linear DC Power Supply

Weight	8.5kg	10kg	10kg
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## 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	≤0.01%+3mV	
Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)	
Ripple & Noise (5Hz~1MHz)	≤1mVrms (I≤3A); ≤2mVrms (I>3A)	
Constant current operation		
Line regulation	≤0.2%+3mA	
Load regulation	≤0.2%+3mA (I≤3A); ≤0.2%+5mA (I>3A)	
Ripple & Noise	≤3mArms (I≤3A); ≤6mA rms (I>3A)	
Tracking operation		
Parallel Line regulation	≤0.01%+3mV	
Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)	
Series Line regulation	≤0.01%+5mV	
Load regulation	≤300mV	
Tracking error	≤0.5%+10mV of the master, no load (with load, add load regulation ≤300mV)	
Display		
Accuracy	Real voltage and current output: ±(1% reading+2 digits) Preset voltage and current: ±(1%reading+8 digits)	
General		
Insulation	Between base and output terminal: ≥20MΩ/500VDC Between base and AC power cord: ≥300MΩ/500VDC	
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-30102	TP-60052
<b>Output voltage</b>	0~30V x2	0~60V x2
<b>Output current</b>	0~10A x2	0~5A x2
<b>Voltmeter</b>	3 digits LED	3 digits LED
<b>Ammeter</b>	4 digits LED	3 digits LED
<b>Resolution</b>	100mV/10mA	100mV/10mA
<b>Fixed output</b>		
<b>Preset V&amp;I</b>	√	√
<b>Output ON/OFF</b>	√	√
<b>Tracking operation</b>	√	√
<b>Dimension (WxHxD)</b>	255x155x460mm	255x155x460mm
<b>Weight</b>	16kg	16kg

Specifications are subject to change without prior notice.