

Linear Mode DC Power Supply

MULTIPLE OUTPUT



TP2000 SERIES

0~30V / 0~3A x2

0~30V / 0~5A x2

FIXED 5V / 3A



FEATURES

- Two independent adjustable outputs
- 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

SPECIFICATIONS

Independent operation	Constant voltage	Constant current
Line regulation	$\leq 0.01\% + 3\text{mV}$	$\leq 0.2\% + 3\text{mA}$
Load regulation	$\leq 0.01\% + 3\text{mV}$ ($I \leq 3\text{A}$); $\leq 0.02\% + 5\text{mV}$ ($I > 3\text{A}$)	$\leq 0.2\% + 3\text{mA}$ ($I \leq 3\text{A}$); $\leq 0.2\% + 5\text{mA}$ ($I > 3\text{A}$)
Ripple & Noise (5Hz~1MHz)	$\leq 1\text{mVrms}$ ($I \leq 3\text{A}$); $\leq 2\text{mVrms}$ ($I > 3\text{A}$)	$\leq 3\text{mArms}$ ($I \leq 3\text{A}$); $\leq 6\text{mArms}$ ($I > 3\text{A}$)
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 $\leq 300\text{mV}$)
Auxiliary output (fixed)		
Load regulation	$\leq 25\text{mV}$ @ 110/220VAC rated input	
Ripple & noise (5Hz~1MHz)	$\leq 2\text{mVrms}$	
Display		
Resolution	100mV/10mA	
Accuracy	Real voltage and current output: $\pm(1\% \text{ reading} + 2 \text{ digits})$	
	Preset voltage and current: $\pm(1\% \text{ reading} + 8 \text{ digits})$	
General		
Operating environment	0°C~40°C, $\leq 80\% \text{RH}$	
Storage environment	-10°C~70°C, $\leq 70\% \text{RH}$	
Power source	AC110V/220V $\pm 10\%$, 50/60Hz	
Accessories	Power cord x1, Operation manual x1	

SELECTION GUIDE

Model	TP-2303E	TP-2305E	TP-2303K	TP-2305K	TP-2303	TP-2305	TP-2303TK	TP-2305TK
Output voltage	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2
Output current	0~3A x2	0~5A x2	0~3A x2	0~5A x2	0~3A x2	0~5A x2	0~3A x2	0~5A x2
Fixed output			5V $\pm 0.25\text{V}/3\text{A}$		5V $\pm 0.25\text{V}/3\text{A}$		5V $\pm 0.25\text{V}/3\text{A}$	
Preset V&I								√
Output ON/OFF				√		√		√
Tracking operation		√		√		√		√
Dimension (WxHxD)	255x155x330mm				255x155x370mm			
Weight	7.5kg	8kg	7.5kg	8kg	8kg	9kg	8kg	9kg

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Ripple & Noise (5Hz~1MHz)	$\leq 1\text{mVrms}$ ($I \leq 3\text{A}$); $\leq 2\text{mVrms}$ ($I > 3\text{A}$)	$\leq 3\text{mArms}$ ($I \leq 3\text{A}$); $\leq 6\text{mArms}$ ($I > 3\text{A}$)
Tracking operation		
Parallel	Line regulation	$\leq 0.01\% + 3\text{mV}$
	Load regulation	$\leq 0.01\% + 3\text{mV}$ ($I \leq 3\text{A}$); $\leq 0.02\% + 5\text{mV}$ ($I > 3\text{A}$)
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	Load regulation	$\leq 300\text{mV}$
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Accuracy	Real voltage and current output: $\pm(1\% \text{ reading} + 2 \text{ digits})$	
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Storage environment	-10°C ~ 70°C, $\leq 70\% \text{RH}$	
Power source	AC 110V/220V $\pm 10\%$, 50/60Hz	
Accessories	Power cord x1, Operation manual x1	

SELECTION GUIDE

Model	TP-30102	TP-60052
Output voltage	0~30V x2	0~60V x2
Output current	0~10A x2	0~5A x2
Resolution	100mV/10mA	100mV/10mA
Fixed output		
Preset V&I	√	√
Output ON/OFF	√	√
Tracking operation	√	√
Dimension (WxHxD)	255x155x460mm	255x155x460mm
Weight	16kg	16kg