

# Linear Mode DC Power Supply

## MULTIPLE OUTPUT



### TP2000PU SERIES

0~30V / 0~3A x2

0~30V / 0~5A x2

0~50V / 0~3A x2

AUX.:

2.2, 3.3, 5V/3A

USB: 5V/2A



### FEATURES

- Two independent adjustable outputs
- Fixed 2.5V/3.3V/5V/3A binding post 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

### SPECIFICATIONS

Independent operation	Constant voltage		Constant current		
Line regulation	$\leq 0.01\% + 3mV$		$\leq 0.2\% + 3mA$		
Load regulation	$\leq 0.01\% + 3mV (I \leq 3A); \leq 0.02\% + 5mV (I > 3A)$		$\leq 0.2\% + 3mA (I \leq 3A); \leq 0.2\% + 5mA (I > 3A)$		
Ripple & Noise (5Hz~1MHz)	$\leq 1mVrms (I \leq 3A); \leq 2mVrms (I > 3A)$		$\leq 3mArms (I \leq 3A); \leq 6mArms (I > 3A)$		
Tracking operation					
Parallel	Line regulation	$\leq 0.01\% + 3mV$			
	Load regulation	$\leq 0.02\% + 5mV$			
Series	Line regulation	$\leq 0.01\% + 5mV$			
	Load regulation	$\leq 300mV$			
	Tracking error	$\leq 0.5\% + 10mV$ of the master, no load (with load, add load regulation $\leq 300mV$ )			
Auxiliary output (CH3)					
Load regulation	$\leq 25mV @ 110/220VAC$ rated input				
Ripple & noise (5Hz~1MHz)	$\leq 2mVrms$				
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	$0^\circ C \sim 40^\circ C, \leq 80\% RH$				
Storage environment	$-10^\circ C \sim 70^\circ C, \leq 70\% RH$				
Power source	AC110V/220V $\pm 10\%$ , 50/60Hz				
Accessories	Power cord x1, Operation manual x1				

### SELECTION GUIDE

Model	TP-2303N	TP-2305N	TP-2503N	TP-2303PU	TP-2305PU	TP-2503PU	
Output voltage	0~30V x2	0~30V x2	0~50V x2	0~30V x2	0~30V x2	0~50V x2	
Output current	0~3A x2	0~5A x2	0~3A x2	0~3A x2	0~5A x2	0~3A x2	
Fixed output	2.5/3.3/5V $\pm 0.25V$ /3A (CH3)			2.5/3.3/5V $\pm 0.25V$ /3A (CH3); 5V/2A (USB)			
Preset V&I						✓	
Output ON/OFF		✓				✓	
Tracking operation		✓				✓	
Dimension (WxHxD)	255x155x310mm						
Weight	7.5kg	8.5kg	8.5kg	7.5kg	8.5kg	8.5kg	