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Programmable Multiple Output DC Power Supplies



Product No : TP3300N

Product Description

The TP-3303N is multiple output programmable DC power supply with 4.3 inch TFT LCD display and USB interface, supports remote programming and has a real time waveform display. It uses digital programming for linear regulation to make accurate, stable and pure DC output with low noise. It has three independent outputs with independent on/off control: two with adjustable voltage level and one with fixed level selectable from 2.5V, 3.3V and 5V. It provides convenient operation and superior performance and can be used in production and R&D.

- ★ Two independent adjustable outputs CH1/CH2: 0~32V, 0~3.2A
- ★ One selectable output CH3: 2.5V, 3.3V, 5V/3.2A or 0-8V/5A at request
- ★ 5 digits Voltage, 4 digits Current Display, Minimum Resolution: 1mV/1mA
- ★ 4.3 inch TFT LCD display,
- ★ Supports front panel timing output functions
- ★ Constant voltage and constant current operations, auto CV and CC switch
- ★ 100V/120V/220V/230V compatible design to meet the needs of different power grids
- ★ 10 sets save & recall for panels settings, quick operation from panel
- ★ Panel lock and output ON/OFF function
- ★ Preset function, setting of voltage and current with output open circuit
- ★ Auto Series and Parallel tracking operations
- ★ Independent ON/OFF control for CH1/CH2/CH3
- ★ Intelligent cooling fan control
- ★ USB Device interface for remote programming, support SCPI commands

Output		
CH1		0~32V, 0~3.2A
CH2		0~32V, 0~3.2A
CH3		2.5/3.3/5V, 0-3.2A, or 0-8V, 0-5A at request
Constant voltage operation		
Line regulation		$\leq 0.01\% + 3\text{mV}$
Load regulation		$\leq 0.01\% + 3\text{mV}$
Ripple&Noise (5Hz~1MHz)		$\leq 1\text{mVrms}$
Recovery time		$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)
Constant current operation		
Line regulation		$\leq 0.2\% + 3\text{mA}$
Load regulation		$\leq 0.2\% + 3\text{mA}$
Ripple&Noise		$\leq 3\text{mA}_{\text{rms}}$
Tracking operation		
Parallel	Line regulation	$\leq 0.01\% + 3\text{mV}$
	Load regulation	$\leq 0.01\% + 3\text{mV}$ ($I \leq 3\text{A}$); $\leq 0.02\% + 10\text{mV}$ ($I > 3\text{A}$)
Serial	Line regulation	$\leq 0.01\% + 5\text{mV}$
	Load regulation	$\leq 300\text{mV}$
Auxiliary output (fixed)		
Output voltage		2.5V, 3.3V, 5V (selectable), $\pm 8\%$
Output current		0~3.2A
Line regulation		$\leq 0.01\% + 3\text{mV}$
Load regulation		$\leq 0.01\% + 3\text{mV}$
Ripple&Noise (5Hz~1MHz)		$\leq 1\text{mVrms}$
Setting Accuracy (25\pm5$^{\circ}$C)		
Voltage		$\pm(0.03\% \text{ of reading} + 10\text{mV})$
Current		$\pm(0.3\% \text{ of reading} + 10\text{mA})$
Reading Accuracy (25\pm5$^{\circ}$C)		
Voltage		$\pm(0.03\% \text{ of reading} + 10\text{mV})$
Current		$\pm(0.3\% \text{ of reading} + 10\text{mA})$
General		
Display		4.3-inch TFT LCD (16:9), 5 digits for voltage and 4 digits for current
Protection		Voltage limit, current limit and reverse polarity protections
Panel lock		Provided
Memory		10 sets
Insulation		Between base and output terminal: $\geq 20\text{M}\Omega/500\text{VDC}$

	Between base and AC power cord: $\geq 30\text{M}\Omega/500\text{VDC}$		
Operating environment	Indoor use	Altitude: $\leq 2000\text{m}$	Ambient temperature: $0\sim 40^{\circ}\text{C}$
	Relative humidity: $\leq 80\%$	Installation category: II	Pollution degree: 2
Storage environment	$-10^{\circ}\text{C}\sim 70^{\circ}\text{C}$, $\leq 70\%\text{RH}$		
Power source	AC100V/120V/220V/230V compatible $\pm 10\%$ selectable, 50/60Hz		
Accessories	Power cord x1, Operation manual x1, USB cable x1, Software CD x1		
Dimension (WxHxD)	240x160x300 mm		
Weight	8.3kg		

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