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Programmable Multiple Output DC Power Supplies



Product No : TP3303

Product Description

The TP3300 series programmable DC power supply are light weight, adjustable, multi-functional work stations. They have three independent outputs: two with adjustable voltage level and one with fixed level selectable from 2.5V, 3.3V and 5V. The power supply can be used for logic circuits where various output voltage or current are needed, and for tracking mode definition systems where positive and negative voltages with good accuracy are required.

- ★ Two independent adjustable outputs 0~30V/0~3A x2
- ★ One selectable output 2.5V/3.3V/5V/3A
- ★ High resolution 1mV/1mA
- ★ Constant voltage and constant current operations
- ★ Digital panel control, Coarse/Fine volume control for voltage and current
- ★ 4 sets panel settings save & recall
- ★ Panel lock and output ON/OFF function
- ★ Preset voltage and current
- ★ Auto Series and Parallel tracking operations
- ★ Intelligent cooling fan control
- ★ USB interface for PC control
- ★ Support Labview

| | | |
|-----------------------------------|-----------------|---|
| Model | | TP-3303 |
| Output | | 0~30V/0~3A x2, fixed 2.5/3.3/5V3A x1 |
| Constant voltage operation | | |
| Line regulation | | $\leq 0.01\% + 3\text{mV}$ |
| Load regulation | | $\leq 0.01\% + 3\text{mV}$ |
| Ripple&Noise | | $\leq 1\text{mVrms}$ |
| 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 | | $\leq 3\text{mA rms}$ |
| Tracking operation | | |
| Parallel | Line regulation | $\leq 0.01\% + 3\text{mV}$ |
| | Load regulation | $\leq 0.01\% + 5\text{mV}$ |
| Serial | Line regulation | $\leq 0.01\% + 5\text{mV}$ |
| | Load regulation | $\leq 300\text{mV}$ |
| | Tracking error | $\leq 0.5\% + 10\text{mV}$ (No load; with load, add load regulation $\leq 300\text{mV}$) |
| CH3 output | | |
| Output voltage | | 2.5V, 3.3V, 5V (selectable), $\pm 8\%$ |
| Output current | | 3A |
| Line regulation | | $\leq 25\text{mV}$ |
| Load regulation | | $\leq 25\text{mV}$ |
| Ripple&Noise | | $\leq 2\text{mVrms}$ |
| Protection | | Over load and reverse polarity protections |
| Display | | |
| Voltmeter | | 32V full scale, LED display |
| Ammeter | | 3.2A full scale, LED display |
| Setting accuracy | Voltage | $\pm(0.03\% + 10\text{mV})$ |
| | Current | $\pm(0.3\% + 10\text{mA})$ |
| Reading accuracy | Voltage | $\pm(0.03\% + 10\text{mV})$ |
| | Current | $\pm(0.3\% + 10\text{mA})$ |
| Protection | | Over load, voltage limit, current limit and reverse polarity protections |
| Insulation | | Between base and output terminal $\geq 20\text{M}\Omega/500\text{VDC}$ |
| | | Between base and power cord $\geq 30\text{M}\Omega/500\text{VDC}$ |

| | |
|------------------------------|--|
| Operating environment | 0°C~40°C, ≤80%RH |
| Storage environment | -10°C~70°C, ≤70%RH |
| Power source | AC110V/220V±10% selectable, 50/60Hz |
| Accessories | Power cord x1, Operation manual x1, Test lead x1, USB cable x1, Software CD x1 |

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