

NTP - Series Laboratory Grade Switching Mode Power Supply

NTP-5521 (1-20VDC 5A Max.)

NTP-5531 (1-36VDC 3A Max.)

NTP-5561 (1-60VDC 1.6Max.)

Two auxiliary fixed: 12V & 3.3V/5V selectable output



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LABORATORY GRADE POWER SUPPLY with C.C. CONTROL



NTP - 5521 / 5531 / 5561
100W Switching Mode Triple Output Power Supply

Description

This series of 100W Switching Mode Power Supplies with Current Limiting Control, is designed with the objectives of high accuracy, compactness and easy portability.

The use of digital power techniques results in capabilities and performance levels at the power supply that are not possible with analog techniques.

Digital power techniques can control the turn-on slew rate of the power MOSFET in response to the output load thus further reducing EMI

4 digit display LCD of voltage and current for high precision. The slim tower housing makes it ideal for tight work bench. It is light and conveniently portable with a collapsible handle.

The large and illuminated LCD display provides clear and sharp readings even under dim light. The output power on off switch allows safe and handy operations. The Tracking OVP (Output Over Voltage Protection) ensures a better and tighter protection to voltage sensitive loads. It has good line and load regulations, high efficiency and low ripple & noise that are typical of advanced switching mode power supply. It meets the CE safety standards of EN-61010 for laboratory grade power supply and respective EMC standards.

Features

- Open circuit current limiting setting capability
- Automatic Cross over CV and CC mode
- Illuminated LCD indications of A, V, Output On-OFF, CC & CV.
- 4 digit displays of Volt and Amp meters for main output
- Two auxiliary fixed: 12VDC & 3.3V/5VDC selectable output
- 2 digit displays of Amp meters for auxiliary fixed outputs
- Coarse & Fine Voltage and Current controls
- Compact slim tower housing
- Collapsible handle
- Output power on off switch at front panel
- Natural Convection
- Tracking OVP (output over voltage protection), Short circuit, overload and over temperature protections.
- Universal input with active PFC
- Good line, load regulations and low ripple and noise
- Rotary encoder control
- CE approvals

Specifications

Models	NTP - 5521	NTP - 5531	NTP - 5561
Input Voltage	100 - 240VAC , 50/60Hz~ (or on request)		
Full Load Input Current at 230VAC	0.83A		
Output Voltage Adjustable Range	1 - 20VDC	1 - 36VDC	1 - 60VDC
Output Current Adjustable Range	0.25 - 5A	0.25 - 3A	0.25 - 1.6A
Voltage Regulation			
Load from 10% to 90% Variation	70mV		
Line from 90 to 264VAC Variation	25mV		
Ripple & Noise (peak to peak)	≤120mV	≤150mV	≤180mV
Current Regulation			
Load from 10% to 90% Variation	50mA		
Line from 90 to 264VAC Variation	20mA		
Ripple & Noise (peak to peak)	≤50mA		
Switching Operation Frequency	50KHz to 150KHz		
Aux. Output 1	Fixed 3.3 / 5VDC , 1.8A Cont. 2A Max.		
Aux. Output 2	Fixed 12VDC , 800mA Cont. 1A Max.		
Power Factor	>0.9		
Efficiency at Maximum Power	≥80.5%		
Display	4digit LCD		
Volt. Meter Accuracy (Main Output)	5 counts for range V<5V ±0.2% +5 counts for range V≥5V	5 counts for range V<5V ±0.2% +5 counts for range V≥5V	5 counts for range V<5V ±0.2% +5 counts for range V≥5V
Curr. Meter Accuracy (Main Output)	15 counts for range I≤1A ±0.5% +6 counts for range I>1A	15 counts for range I≤1A ±0.5% +6 counts for range I>1A	15 counts for range I≤1A ±0.5% +6 counts for range I>1A
LCD Indication	C.C. , C.V. , Amp , Volt. , output on/off , Aux Output Current		
Protection	Short Circuit, Overload, Over Temperature, Tracking OVP		
Approvals	CE EMC: EN55011 LVD: EN61010		
Cooling System	Natural Convection		
Dimensions (WxHxD)	70x155x250 mm 2.8x6x9.8 inch		
Weight	Approx. 2 kgs 4.4 lbs		

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE