

NTP - 6500 Series Triple Output Programming Laboratory Grade Power Supply

NTP-6521 (1-20VDC 5A Max.)
NTP-6531 (1-36VDC 3A Max.)
NTP-6561 (1-60VDC 1.6Max.)

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



Description

This series of 100W Remote Programming Switching Mode Power Supplies with 3 isolated outputs, which can be used simultaneously, in combination, and independently. The variable output is fully programmable via standard USB interface. It comes with an application PC software for remote programming and cyclic tests, Command Sets, and latest Python library for Window and Linux platform. Both novice and advanced users will find this power supply highly adaptable and easy to use.

The first auxiliary output has two selectable voltage making a total of 3 voltages (3.3V / 5V & 12V) from 2 auxiliary outputs. Each auxiliary output has its own ammeter .

The variable output has 4 digit display LCD of voltage and current. 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

- 3 isolated outputs with 3 selectable voltage and one variable voltage.
- Auxiliary 1 has selectable 3.3/ 5V and Auxiliary 2 has 12V.
- Separate 2 digit ammeter for each fixed voltage output.
- 4 digit LCD voltage and current meters for the variable output.
- Remote Programmable via USB for the variable output.
- Supplied with application software for cyclic operations, command sets, and Python library.
- Automatic Cross over CV and CC mode .
- Illuminated LCD indications of A, V, Output On-OFF, CC & CV.
- Coarse & Fine Voltage and Current controls with Rotary. encoder control.
- Collapsible handle.
- Output power on off switch at front panel .
- Natural Convection Cooling.
- Tracking OVP (output over voltage protection), Short circuit, overload and over temperature protections.
- Good line, load regulations and low ripple and noise.
- Universal input with active PFC.
- CE approvals.

Specifications

Models	NTP - 6521	NTP - 6531	NTP - 6561
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		
Connectivity	Bundle USB		
Programming Language Library	Python		
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