

# NTP-PS9001R

## DC Power Supply

• High Stability • Industrial Grade • Rack Mount



## Features

- Integrated **4.3-inch TFT LCD** for clear and intuitive operation
- Simultaneous display of **setting parameters, measured values, and output waveforms**
- Supports **electronic load operation modes: CC, CV, and CR**
- High precision adjustment with **setting resolution of 1 mV / 0.1 mA** and **measurement readback resolution of 0.1 mV / 0.1 mA**
- Low output ripple and noise performance of  $\leq 350 \mu\text{Vrms} / \leq 2 \text{ mArms}$
- Fast transient response time of  $\leq 50 \mu\text{s}$
- Built-in **tracking function** supporting **series and parallel configurations** without external wiring
- Hardware-implemented protection features including **Over-Voltage, Over-Current, and Over-Temperature Protection**
- Equipped with **delay control, output monitoring, and output recording capabilities**
- Smart **temperature-regulated cooling fan** designed to effectively reduce acoustic noise
- Supports **sequential output operation** with **8 internal waveform templates**
- Output recorder function logs **voltage and current data**, with a **minimum recording interval of 1 second**
- Offers **10 internal memory groups** for saving **sequence, delay, recorder, and panel configurations**
- **NTP-PS9001 model** includes a **USB Type-A output port**
- Standard communication interfaces include **RS-232, USB, and External I/O**; optional factory-installed interfaces include **LAN and GPIB+LAN**
- Supports **Interface data communication** for measurement data export and integration with external information systems



## Technical Specifications

OUTPUT MODE	Number of Channel Voltage Current Tracking Series Voltage Tracking Parallel Current	CH1	CH2	CH3	
		0~32V	0~32V	1.8/2.5/3.3/ 5.0V	
		0~3A	0~3A	5A	
		0~64V		-	
		0~6A			
CONSTANT VOLTAGE OPERATION	Line Regulation	≤ 0.01%+3mV			
	Load Regulation	≤ 0.01%+3mV(rating current ≤3A); ≤ 0.02%+5mV(rating current >3A)			
	Ripple & Noise (5Hz~1MHz)	≤ 350μVrms		≤ 2mVrms	
	Recovery Time	≤ 50μs		≤ 100μs	
CONSTANT CURRENT OPERATION	Line Regulation	≤ 0.2%+3mA			
	Load Regulation	≤ 0.2%+3mA			
	Ripple & Noise	≤ 2mArms			
PROGRAMMI NG RESOLUTION	Voltage	1mV		-	
	Current	0.1mA		-	
TRACKING OPERATION (CH1, CH2)	Tracking Error	≤ 0.1%+10mV of Master(0~32V, No Load, with Load add Load regulation ≤100mV)			
	Parallel Regulation	Line: ≤ 0.01%+3mV Load: ≤ 0.01%+3mV(rating current ≤3A); ≤ 0.02%+5mV(rating current >3A)			
	Series Regulation	Line: ≤ 0.01%+5mV ; Load: ≤ 100mV			
	Ripple & Noise	≤ 1mVrms, 5Hz ~ 1MHz			
CH3 OPERATION FOR (GPP-3323)	Output Voltage	1.8V/2.5V/3.3V/5.0V, ±5%			
	Output Current	5A			
	Line Regulation	≤ 3mV			
	Load Regulation	≤ 5mV			
	Ripple & Noise	2mVrms(5Hz ~ 1MHz)			
	Transient Recovery Time	100μs			
	USB Port Output	1.8V/2.5V/3.3V/5.0V, ±0.35V, 3A			
METER	Voltage Resolution	0.1mV		-	
	Current Resolution	0.1mA			



	Setting Accuracy	≤±(0.03%+10mV) ≤±(0.30%+10mA)		
	Readback Accuracy	≤ ±(0.03%+10mV) ≤ ±(0.30%+10mA)		
DC LOAD CHARACTERISTIC	Channel	2	-	
	Display Power	0~50.00W		
	Display Voltage	1~33.00V		
	Display Current	0~3.200A		
	CV Mode Setting Range	1.500V~33.00V		
	Resolution	10mV		
	Set Accuracy	≤ 0.1%+30mV		
	Read Accuracy	≤ 0.1%+30mV		
	CC Mode Setting Range	0~3.200A		
	Resolution	1mA		
	Set Accuracy	≤ 0.3%+10mA		
	Read Accuracy	≤ 0.3%+10mA		
	CR Mode Setting Range	1~1kΩ		
	Resolution	1Ω		
	Set Accuracy	≤ 0.3%+1Ω (Voltage		
	Read Accuracy	≥0.1V,and current ≥0.1A)		
INSULATION	Chassis and Terminal	20MΩ or above (DC 500V)		
	Chassis and AC Cord	30MΩ or above (DC 500V)		
ENVIRONMENT CONDITION	Operation Temp	0~40℃		
	Storage Temp	-10~70℃		
	Operating Humidity	≤ 80% RH		



	<b>Storage Humidity</b>	≤ 70% RH
<b>EXTERNAL CONTROL</b>	Yes	
<b>INTERFACE</b>	Std: RS-232/USB(CDC), Opt(Manufacturer installed only): LAN/GPIB+LAN	
<b>POWER SOURCE</b>	AC100V/120V/220V/230V±10%, 50/60Hz	
<b>DIMENSION &amp; WEIGHT</b>	213 (W) x 145 (H) x 312 (D) mm ; Approx. 7.5kg	

