

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 **≤ 350 µVRms / ≤ 2 mArms**
- Fast transient response time of **≤ 50 µs**
- 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



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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	$\leq 0.01\%+3\text{mV}$						
	Load Regulation	$\leq 0.01\%+3\text{mV}$ (rating current $\leq 3\text{A}$); $\leq 0.02\%+5\text{mV}$ (rating current $> 3\text{A}$)						
	Ripple & Noise (5Hz~1MHz)	$\leq 350\mu\text{Vrms}$	$\leq 2\text{mVrms}$					
	Recovery Time	$\leq 50\mu\text{s}$	$\leq 100\mu\text{s}$					
CONSTANT CURRENT OPERATION	Line Regulation	$\leq 0.2\%+3\text{mA}$						
	Load Regulation	$\leq 0.2\%+3\text{mA}$						
	Ripple & Noise	$\leq 2\text{mA rms}$						
PROGRAMMING RESOLUTION	Voltage	1mV	-					
	Current	0.1mA	-					
TRACKING OPERATION (CH1, CH2)	Tracking Error	$\leq 0.1\%+10\text{mV}$ of Master(0~32V, No Load, with Load add Load regulation $\leq 100\text{mV}$)						
	Parallel Regulation	Line: $\leq 0.01\%+3\text{mV}$ Load: $\leq 0.01\%+3\text{mV}$ (rating current $\leq 3\text{A}$); $\leq 0.02\%+5\text{mV}$ (rating current $> 3\text{A}$)						
	Series Regulation	Line: $\leq 0.01\%+5\text{mV}$; Load: $\leq 100\text{mV}$						
	Ripple & Noise	$\leq 1\text{mVrms}$, 5Hz ~ 1MHz						
	CH3 OPERATION FOR (GPP-3323)							
CH3 OPERATION FOR (GPP-3323)	Output Voltage	1.8V/2.5V/3.3V/5.0V, $\pm 5\%$						
	Output Current	5A						
	Line Regulation	$\leq 3\text{mV}$						
	Load Regulation	$\leq 5\text{mV}$						
	Ripple & Noise	2mVrms(5Hz ~ 1MHz)						
	Transient Recovery Time	100 μs						
	USB Port Output	1.8V/2.5V/3.3V/5.0V, $\pm 0.35\text{V}$, 3A						
METER	Voltage Resolution	0.1mV	-					
	Current Resolution	0.1mA						



	Setting Accuracy	$\leq \pm(0.03\% + 10mV)$ $\leq \pm(0.30\% + 10mA)$		
	Readback Accuracy	$\leq \pm(0.03\% + 10mV)$ $\leq \pm(0.30\% + 10mA)$		
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	$\leq 0.1\% + 30mV$		
	Read Accuracy	$\leq 0.1\% + 30mV$		
	CC Mode Setting Range	0~3.200A		
	Resolution	1mA		
	Set Accuracy	$\leq 0.3\% + 10mA$		
	Read Accuracy	$\leq 0.3\% + 10mA$		
	CR Mode Setting Range	1~1k Ω		
	Resolution	1 Ω		
INSULATION	Chassis and Terminal	20M Ω or above (DC 500V)		
	Chassis and AC Cord	30M Ω or above (DC 500V)		
ENVIRONMENT CONDITION	Operation Temp	0~40°C		
	Storage Temp	-10~70°C		
	Operating Humidity	$\leq 80\% RH$		

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



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