

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	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	$\leq 0.01\%+3mV$					
	Load Regulation	$\leq 0.01\%+3mV$ (rating current $\leq 3A$); $\leq 0.02\%+5mV$ (rating current $> 3A$)					
	Ripple & Noise (5Hz~1MHz)	$\leq 350\mu V_{rms}$		$\leq 2mV_{rms}$			
	Recovery Time	$\leq 50\mu s$		$\leq 100\mu s$			
CONSTANT CURRENT OPERATION	Line Regulation	$\leq 0.2\%+3mA$					
	Load Regulation	$\leq 0.2\%+3mA$					
	Ripple & Noise	$\leq 2mA_{rms}$					
PROGRAMMING RESOLUTION	Voltage	1mV		-			
	Current	0.1mA		-			
TRACKING OPERATION (CH1, CH2)	Tracking Error	$\leq 0.1\%+10mV$ of Master(0~32V, No Load, with Load add Load regulation $\leq 100mV$)					
	Parallel Regulation	Line: $\leq 0.01\%+3mV$ Load: $\leq 0.01\%+3mV$ (rating current $\leq 3A$); $\leq 0.02\%+5mV$ (rating current $> 3A$)					
	Series Regulation	Line: $\leq 0.01\%+5mV$; Load: $\leq 100mV$					
	Ripple & Noise	$\leq 1mV_{rms}$, 5Hz ~ 1MHz					
CH3 OPERATION FOR (GPP-3323)	Output Voltage	1.8V/2.5V/3.3V/5.0V, $\pm 5\%$					
	Output Current	5A					
	Line Regulation	$\leq 3mV$					
	Load Regulation	$\leq 5mV$					
	Ripple & Noise	2mV _{rms} (5Hz ~ 1MHz)					
	Transient Recovery Time	100 μs					
	USB Port Output	1.8V/2.5V/3.3V/5.0V, $\pm 0.35V$, 3A					
METER	Voltage Resolution	0.1mV					
	Current Resolution	0.1mA					
	Setting Accuracy	$\leq \pm(0.03\%+10mV)$ $\leq \pm(0.30\%+10mA)$					
	Readback Accuracy	$\leq \pm(0.03\%+10mV)$ $\leq \pm(0.30\%+10mA)$					



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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°C
	Storage Temp	-10~70°C
	Operating Humidity	≤ 80% RH
	Storage Humidity	≤ 70% RH
EXTERNAL CONTROL	Yes	
INTERFACE	Std: RS-232/USB(CDC), Opt(Manufacturer installed only): LAN/GPIB+LAN	
POWER SOURCE	AC100V/120V/220V/230V±10%, 50/60Hz	
DIMENSION & WEIGHT	213 (W) x 145 (H) x 312 (D) mm ; Approx. 7.5kg	



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