

BK Precision Power Supply Model 9123

Part No. 01PS9123

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0-30V, 0-5A Professional Single Output Programmable DC Power Supply

Model#9123

The 9123 is a single output programmable power supply with a built-in RS232 and GPIB interface with SCPI language compatibility. It was designed to meet the needs of today's applications in R&D design verification, university labs, production testing and other applications that require clean/reliable power and excellent performance. With a meter resolution of 10mV and 1mA, these power supplies are ideal for low power surface mount circuits that require very precise voltage and current settings.

- 10mV & 1mA Display Resolution
- Over-voltage protection and remote sensing
- Excellent regulation and very low noise
- SCPI compatible
- RS232 & GPIB Interface
- Fast Transient Response Time
- Closed Case Calibration
- Output terminals are banana style (not binding posts), click on Accessories for leads

| Specifications | | model 9123 |
|--|---------------------|--|
| Output Ratings (at 0° - 40°C) | | 0 to +30V / 0 to 5A |
| Programming Accuracy ^[1] 12 months (at 25°C ± 5°C) ± (% of output + offset) | Voltage | ≤0.05% + 10mV |
| | Current | ≤0.2% + 10mA |
| Readback/Meter Accuracy ^[1] 12 months (over RS 232 or front panel with respect to actual output at 25°C ± 5°C) ± (% of output + offset) | Voltage | ≤0.05% + 5mV |
| | Current | ≤0.15% + 5mA |
| Ripple and Noise (with output leads shielded, or with either output terminal grounded, 20Hz to 20MHz) | Normal mode voltage | ≤0.5mV _{rms} and 5mV _{p-p} |
| | Normal mode current | ≤4mA _{rms} |
| | Common mode current | ≤1.5μA _{rms} |

| | | |
|--|---------|----------------|
| Load Regulation (utilizing Remote Senseing), ±(% of output + offset) | Voltage | ≤0.01% + 3mV |
| | Current | ≤0.01% + 250μA |
| Line Regulation, ±(% of output + offset) | Voltage | ≤0.01% + 3mV |
| | Current | ≤0.01% + 250μA |
| Programming Resolution | Voltage | <1mV |
| | Current | <0.1mA |
| Readback Resolution | Voltage | 0.25mV |
| | Current | 0.04mA |
| Front Panel Resolution | Voltage | 10mV |
| | Current | 1mA |