



Picotest

P9610A & P9611A

Mixed Mode DC Power Supply

Data Sheet



PICOTEST CORP.

Version: 1.00

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Key Features

Mixed Mode:

Switched Efficiency plus
Linear Performance

Programming Accuracy:

V: 0.05% + 10mV
C: 0.2% + 10mA

Line & Load Regulations:

V: 0.01% + 2mV
C: 0.01% + 25 μ A

Autoranging:

P9610A: 1mV~36V, 1mA~7A
P9611A: 10mV~60V, 1mA~6A

**Fast Transient Response
Time:**

P9610A: <30 μ s
P9611A: <50 μ s

Ripple & Noise:

20Hz to 20MHz
P9610A: <350 μ Vrms
P9611A: <500 μ Vrms

Master / Slave Control:

Various Connections with 7
pieces P9610As can enlarge
the output up to 252V / 49A or
stimulate multi-outputs.

Sequencing Mode:

8 Programmable Points
Control

Save & Recall:

16 memory states

Remote Sense:

Stable & Accurate Output

Output & Protection:

CV, CC / OVP, OCP, OTP

An Optical Knob:

Provides a Durable & Precise
Control

Standby Output for Safety:

When turning on the power,
the output is disabled.

Security Lock:

Keypad lock, and physical lock
mechanism

Light Weight:

Size: 214.6W*88.8H*280D mm
Weight: 2500g, Approx. 5.5 Lbs



P9610A Specifications

Output Ratings (@ 0 °C ~ 40 °C)

Voltage: 0 to 36 V
Current: 0 to 7 A

Programming Accuracy¹ 1 Year (@ 25 °C ±5 °C), (% of Output + Offset)

Voltage: 0.05% + 10 mV
Current: 0.2% + 10 mA

Read-Back Accuracy¹ 1 Year (over USB or front panel with respect to actual output (@ 25 °C ±5 °C), (% of Output + Offset)

Voltage: 0.05% + 5 mV
Current: 0.15% + 5 mA

Ripple and Noise (with outputs ungrounded, or either output terminal grounded, 20 Hz to 20 MHz)

Voltage: < 0.35 mVrms
< 2 mV p-p
Current: < 2 mArms
Common Mode Current: < 1.5 μArms

Load Regulation ±(% of Output + Offset)

Change in output voltage or current for any load change within ratings.

Voltage: < 0.01% + 2 mV
Current: < 0.01% + 250 μA

Line Regulation ±(% of Output + Offset)

Change in output voltage or current for any load change within ratings.

Voltage: 0.01% + 2 mV
Current: 0.01% + 250 μA

Programming Resolution

Voltage: 1 mV
Current: 0.21 mA

Read-Back Resolution

Voltage: 1 mV
Current: 0.1 mA

Meter Resolution

Voltage: 1 mV
Current: 0.1 mA

Transient Response Time

Less than 30 usec for output recover to within 15 mV following a change in output current from full load to half load or vice versa.

Command Processing Time via GPIB

Read-Back Commands: Maximum
time to read-back output by MEASure? < 20 ms
commands

Output Programming Range (maximum programmable values)

Voltage: 0 to 37.8 V
Current: 0 to 7.35 A

Temperature Coefficient ±(% of Output + Offset)

Maximum change in output / read-back per °C after a 30-minute warm-up.

Voltage: 0.01 % + 3 mV
Current: 0.02 % + 3 mA

Stability (% of Output + Offset)

Maximum change in output / read-back per °C after a 30-minute warm-up.

Voltage: 0.02 % + 1 mV
Current: 0.1 % + 1 mA

Voltage Programming Speed

Maximum time required for output voltage to settle within 1 % of its total excursion (for resistive load). Excludes command processing time.

Full Load Up (0V ~ 36V): < 40 ms

Full Load Down (36V ~ 0V): < 40 ms

No Load Up (0V ~ 36V): < 20 ms

No Load Down (36V ~ 0V): < 400 ms

General Specifications²

Item	Limitation & Description
Power Supply:	100V ~ 120V (115V Range) 220V ~ 240V (230V Range)
Power Line (Hz):	47Hz ~ 63Hz
Interfaces:	Optional USB / USB&GPIB
Power Consumption:	400VA Maximum
Size & Weight for Rack (WxHxD):	214.6 x 88.6 x 280 mm, < 2500 g (5.5 Lbs)

1. The accuracy specifications are gained under 1-hour warm-up condition and the calibration at 25 °C.
2. For more information, please check the user's manual.

The specifications are subject to change without notice due to design improvements.