Picotest

P9610A & P9611A

Mixed Mode DC Power Supply

Data Sheet

PICOTEST CORP.

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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% + 25μA

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

Fast Transient Response Time:
P9610A: <30μs
P9611A: <50μs

Ripple & Noise:
20Hz to 20MHz
P9610A: <350μVrms
P9611A: <500μVrms

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

P9611A
Specifications

Output Ratings (@0 °C~40 °C)

Voltage: 0 to 60 V
Current: 0 to 6 A

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

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

Read-Back Accuracy[1] 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: < 0.5 mVrms
< 3 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: 1 mA

Read-Back Resolution

Voltage: 1 mV
Current: 0.21 mA

Meter Resolution

Voltage: 10 mV
Current: 1 mA

Transient Response Time

Less than 50 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? commands: < 20 ms

Output Programming Range (maximum programmable values)

Voltage: 0 to 60 V
Current: 0 to 6 A

Temperature Coeffiecient ±(% of Output + Offset)

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

Voltage: 0.01 % + 10 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: 0.05 % + 10 mV
Current: 0.15 % + 2 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 ~ 60V): < 100 ms

Full Load Down (60V ~ 0V): < 50 ms

No Load Up (0V ~ 60V): < 35 ms

No Load Down (60V ~ 0V): < 500 ms

General Specifications[2]

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.