

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N3304A

The Keysight N3304A (formerly Agilent) is a 300 W, 0-60 V, 0-60 A DC electronic load module designed for use in the Keysight N3300A and N3301A mainframes. It supports testing and evaluating DC power supplies and components with programmable constant current (CC), constant voltage (CV), and constant resistance (CR) modes. The module features highly accurate voltage and current readbacks and takes up a single slot in the mainframe.

SPECIFICATIONS

Physical

Operating Temperature	0 °C to 55 °C °C
Weight	2.72 kg kg

Input Ratings

Maximum Input Power	300 W
Maximum Input Voltage	60 V
Maximum Input Current	60 A
Minimum Operating Voltage at Full Current	1.2 V (at 60 A)

Constant Current (CC) Mode Specifications

CC High Range	0 to 60 A
CC Low Range	0 to 6 A

Constant Voltage (CV) Mode Specifications

CV Programming Range	0 to 60 V
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Measurement / Readback Specifications

Voltage Readback Range	0 to 60 V
Current Readback High Range	0 to 60 A
Current Readback Low Range	0 to 6 A

Analog Programming and Monitoring

Analog Programming Input Range (Voltage)	0 to 10 V (corresponds to 0 to full scale)
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Physical Specifications

Mainframe Slot Requirement	1 slot
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Performance

Operating Modes	Constant Current (CC), Constant Voltage (CV), Constant Resistance (CR)
Maximum Current Slew Rate	10 A/μs
Transient Generator Frequency Range	0.25 Hz to 10 kHz
Analog Programming Bandwidth	DC to 10 kHz
Voltage Ripple and Noise	5 mV rms / 50 mV p-p (20 Hz to 10 MHz)
Current Ripple and Noise	4 mA rms / 40 mA p-p (20 Hz to 10 MHz)

Features

Protection Features	Overvoltage (OVP), Overcurrent (OCP), Overpower (OPP), Overtemperature (OTP), Reverse Polarity
Remote Sense	Supported

Programming Accuracy

Voltage Programming Accuracy	0.1% + 50 mV
Current Programming Accuracy (High Range)	0.1% + 75 mA
Current Programming Accuracy (Low Range)	0.1% + 15 mA

Readback Accuracy

Voltage Readback Accuracy	0.1% + 50 mV
Current Readback Accuracy (High Range)	0.1% + 75 mA
Current Readback Accuracy (Low Range)	0.1% + 12 mA

Safety & Isolation

Isolation Voltage	±240 Vdc (from chassis ground)
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TECHNOLOGY

DC Electronic Load

APPLICATIONS

Power supply testing, battery testing, power conversion, DC component testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.