

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8114A

The Keysight Agilent 8114A is a high-power, programmable single-channel pulse generator designed for testing components that operate at elevated voltages or currents, such as laser diodes, infrared (IR) diodes, EEPROMs, and flash memories. It delivers fast, clean positive or negative pulses up to 100 V and 2 A at frequencies up to 15 MHz, with a highly configurable architecture that features extensive device-under-test (DUT) protection capabilities.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2)
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Timing Characteristics

Frequency Range	1 Hz to 15 MHz
Period Range	66.7 ns to 999 ms
Period Resolution	3 digits (min 100 ps)
Pulse Width Range	10 ns to 999 ms
Pulse Width Resolution	3 digits (min 100 ps)
Pulse Delay Resolution	3 digits (min 100 ps)
Double Pulse Delay Resolution	3 digits (min 100 ps)

Output Characteristics

Amplitude Range (into 50 Ω)	1.00 V to 50.0 V (50 Ω source) / 1.00 V to 100 V (Low-Impedance source)
Amplitude Range (into Open Circuit)	2.00 V to 100 V (50 Ω source)
Amplitude Resolution	3 digits
Baseline Offset Range	± 25 V (with Option 001 baseline shift)
Rise Time (10% to 90%)	< 12 ns
Fall Time (90% to 10%)	< 12 ns
Overshoot / Preshoot / Ringing	< 5% of amplitude ± 100 mV
Maximum Output Current	2 A
Output Protection	User-definable limits for voltage, current, and duty cycle
Output Connector Type	BNC

Triggering and Synchronization

Trigger Modes	Continuous, Triggered, Gated, Burst
External Trigger Input Frequency Range	1 Hz to 15 MHz
External Trigger Input Impedance	50 Ω or 10 k Ω
Sync Output Level	TTL level into 50 Ω

Operating Modes and Patterns

Pulse Modes	Single pulse, Double pulse
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Control and Programming

GPIB Interface	Standard, IEEE-488.2 compliant
Command Set Language	SCPI

Output Performance

Maximum Duty Cycle	50% (amplitude <= 50 V); 15% (amplitude > 50 V, standard); 10% (amplitude > 50 V, Option 001)
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Output Parameters

Source Impedance Options	Approx. 2 Ω (standard) / 50 Ω (with Option 002)
Maximum Amplitude Options	100 V (standard) / 50 V (with Option 002) into 50 Ω

APPLICATIONS

High-voltage and high-current device testing, including laser/IR diodes, EEPROMs, and flash memories

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