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Data Sheet

August 6, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 214B Pulse Generator

The HP/Agilent/Keysight 214B is a high-power pulse generator delivering up to 100 V / 2 A into 50 Ω at repetition rates to 10 MHz (max ~4 MHz in the highest 30–100 V amplitude ranges). Transition times ≤ 15 ns. Amplitude 0.3 V to 100 V in five ranges. Constant Duty Cycle (CDC) mode protects DUT as frequency changes; overload protection on the instrument. Pulse width down to ~25 ns class. Optional counted pulse burst (Opt 001). Laser diode pulsing; high-power transient simulation; device stress with controlled duty cycle; general high-amplitude pulse stimulus. Manufacturer: Keysight Technologies (Agilent / HP) Instrument Type: High-Power Pulse Generator 100 V / 2 A into 50 Ω ; ≤ 15 ns edges; to 10 MHz Prefer HP 214B datasheet. Non-programmable classic instrument.



MODEL

**Keysight / Agilent
214B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

214B

LISTING

<https://aumictechlabs.com/products/214b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 214B Pulse Generator delivers high-power pulse signals with precise parameter control across demanding test, research, and development applications. Built on VMOS FET output amplifier technology, it generates fast-rise-time pulses to 100 V with repetition rates spanning 10 Hz to 10 MHz and pulse widths down to 25 ns. The instrument provides calibrated adjustment of repetition rate, pulse width, amplitude, and delay/advance functions, supported by Constant Duty Cycle (CDC) mode for device protection and integrated overload safeguards. Technical Specifications Repetition Rate: 10 Hz to 10 MHz in 6 ranges; maximum 4

MHz in the 30 V to 100 V amplitude range Period Jitter: $<0.1\% + 300$ ps Pulse Width: Down to 25 ns Pulse Delay/Advance: 10 ns to 10 ms (± 45 ns fixed delay) in 5 ranges Position Jitter: $<0.1\% + 500$ ps Pulse Amplitude: 0.3 V to 100 V into $50\ \Omega$ load across 5 ranges; $\pm 10\%$ accuracy Output Current: 2 A into $50\ \Omega$ load Rise Time: 15 ns Pulse Power: Up to 200 W at 4 MHz repetition rate with ≤ 15 ns transition times Pulse Distortion: 5% preshoot and overshoot at all amplitudes Output Impedance: $50\ \Omega$ nominal (selectable $50\ \Omega$ or high impedance on 10 V and above ranges) Maximum Pulse Position Duty Cycle: $\geq 50\%$ Double Pulse: Available at up to 5 MHz in all ranges except 30 V to 100 V Key Features Constant Duty Cycle (CDC) mode maintains constant pulse energy during frequency variation Overload protection circuit prevents excessive duty cycle operation LED indicators signal timing errors and output amplifier overload Calibrated vernier controls with $\pm(10\%$ of setting + 1% full scale) accuracy on repetition rate and delay External Input Impedance: $10\text{ k}\Omega$, DC coupled Trigger Frequency: DC to 10 MHz Sensitivity: 500 mVp-p Trigger Slope: Positive or negative selectable Trigger Level: +5 V to -5 V adjustable

Features & description

From manufacturer datasheet

Features

- Amplitude: 0.3 V to 100 V (5 ranges); 100 V / 2 A into 50 Ω • Repetition rate: 10 Hz to 10 MHz (to 4 MHz at 30–100 V ranges) • Transition times: ≤ 15 ns lead/trail • Min pulse width: ~ 25 ns class • Source impedance: 50 Ω (fixed on low ranges; selectable 50 Ω or HI-Z on 10/30/100 V ranges) • Polarity: positive or negative selectable • Constant Duty Cycle mode; overload protection • Distortions (preshoot/overshoot): $\sim 5\%$ at all amplitudes class • Option 001: counted pulse burst

214B Characteristics / Specifications

PARAMETER	VALUE
Model	214B
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	High-Power Pulse Generator
Alias	214B; HP 214B; Agilent 214B Output / Timing 100 V / 2 A into 50 Ω ; ≤ 15 ns edges; to 10 MHz Operational Notes Prefer HP 214B datasheet. Non-programmable classic instrument.
Amplitude	0.3 V to 100 V (5 ranges); 100 V / 2 A into 50 Ω
Repetition rate	10 Hz to 10 MHz (to 4 MHz at 30–100 V ranges)
Transition times	≤ 15 ns lead/trail
Min pulse width	~ 25 ns class
Source impedance	50 Ω (fixed on low ranges; selectable 50 Ω or HI-Z on 10/30/100 V ranges)
Polarity	positive or negative selectable
Distortions (preshoot/overshoot)	$\sim 5\%$ at all amplitudes class
Option 001	counted pulse burst

214B Specifications

PARAMETER	VALUE
Keysight (Agilent) 214B Pulse Generator	Overview
Key Features	- Amplitude: 0.3 V to 100 V (5 ranges); 100 V / 2 A into 50 Ω
Technical Specifications	Model: 214B
Output / Timing	100 V / 2 A into 50 Ω; ≤15 ns edges; to 10 MHz
Operational Notes	Prefer HP 214B datasheet. Non-programmable classic instrument.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	214B
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	High-Power Pulse Generator
Alias	214B; HP 214B; Agilent 214B

Output / Timing

100 V / 2 A into 50 Ω; ≤15 ns edges; to 10 MHz

Operational Notes

Prefer HP 214B datasheet. Non-programmable classic instrument.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.