

PULSE CAPABILITIES

	Model	Voltage Pulse	Current Pulse	Integrated Measurements	Pulse Width	Max Voltage	Max Current
High Speed	3401/3402	■			 3ns – 1000s	10V ¹	400mA
	4200-PG2 High Speed	■			 10ns – 1s	5V ¹	200mA ¹
	4200-PG2 High Voltage	■			 250ns – 1s	20V ¹	800mA ¹
	4200-PIV	■		■	 40ns – 150ns	5V ¹	100mA
	2520		■	■	 500ns – 5ms	10V	5A
Medium Speed	6221		■		 5μs – DC	105V	100mA
	6221/2182A		■	■	 50μs – 12ms	105V	100mA
	2601/2602	■	■	■	 300μs – DC	40V	3A
	2611/2612	■	■	■	 200μs – DC	200V	10A
	2430	■	■	■	 150μs – 5ms	100V	10A

¹Specification applies for a 50Ω source into 50Ω load.

High Speed Pulse Capabilities



Model 3401/3402 Pulse/Pattern Generators

- Broad-purpose voltage pulse and pattern generation
- Programmable pulse parameters: amplitude, rise time, fall time, pulse width, and duty cycle
- Pulse and burst modes for material and device characterization



Model 4200-PIV & Model 4200-PG2 Pulse & Pulse I-V options for the Model 4200-SCS

- Dual-channel pulse generator (4200-PG2) integrates flexible pulse generation into the Model 4200-SCS platform
- The 4200-PIV package provides a complete pulse I-V solution for the powerful Model 4200-SCS platform



Model 2520 Pulse Laser Diode Test System

- Simplifies laser diode LIV testing prior to packaging or active temperature control
- Integrated solution for in-process LIV production testing of laser diodes at the chip or bar level

Medium Speed Pulse Capabilities



Series 2600 System SourceMeter® Instruments

- Combines a precision power supply, true current source, DMM, arbitrary waveform generator, V or I pulse generator with measurement, electronic load, and trigger controller—all in one instrument



Model 6221 AC & DC Current Source/Model 2182A Nanovoltmeter

- Programmable pulse widths as short as 5μs, limiting power dissipation in delicate components. Supports pulsed IV measurements down to 50μs when used with Model 2182A Nanovoltmeter



Model 2430 1kW Pulse Mode SourceMeter® Instrument

- Unique 1kW pulse mode extends instrument's upper current limit to 10A
- Ideal for measuring the breakdown voltage of many types of high power devices, including multi-layer varistors (MLVs) and semiconductor components

Keithley Pulse Solutions


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KEITHLEY PULSE SOLUTIONS

This guide is designed to help you identify Keithley products that include pulse sources that might suit your application's requirements. Visit www.keithley.com for further information and detailed specs on the products presented here.

Minimum desired pulse width	Source Type?	Best Fit Solutions by Range				
		10V	20V	40V	100V	200V
1ns-100ns	Voltage	3401/3402 Pulse/Pattern Generators*				
		4200-SCS w/Pulse I-V option*				
		4200-PG2*				
100ns-1µs	Voltage	3401/3402 Pulse/Pattern Generators*				
		4200-PG2 Dual-Channel Pulse Generator*				
	Current	100mA	1A	3A	5A	10A
		2520 Pulsed Laser Diode Test System				
1µs-100µs	Voltage	3401/3402 Pulse/Pattern Generators*				
		4200-PG2 Dual Channel Pulse Generator*				
	Current	100mA	1A	3A	5A	10A
		6221 AC&DC Current Source				
		6221/2182A AC&DC Current Source				
		2520 Pulsed Laser Diode Test System				
100µs or longer	Voltage	3401/3402 Pulse/Pattern Generators*				
		4200-PG2 Dual-Channel Pulse Generator*				
		2601/2602 System SourceMeter® Instruments				
		2611/2612 System SourceMeter® Instruments				
		2430 1kW Pulse Mode SourceMeter® instrument				
	Current	100mA	1A	3A	5A	10A
		6221 AC&DC Current Source				
		6221/2182A AC&DC Current Source				
		2520 Pulsed Laser Diode Test System				
		2601/2602 System SourceMeter® Instruments				
		2611/2612 System SourceMeter® Instruments				
		2430 1kW Pulse Mode SourceMeter® instrument				

*Into 50Ω load.