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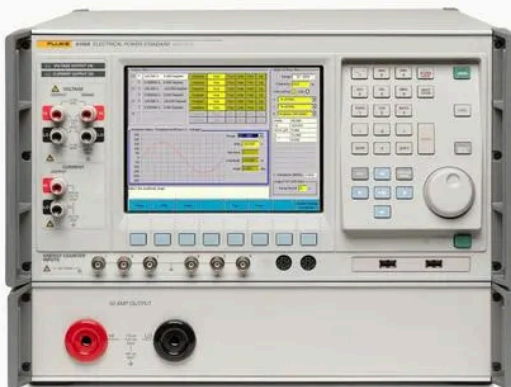
Data Sheet

August 12, 2026

FLUKE

Fluke 6100B Phase, Electrical Power Quality Calibrator

Fluke 6100B Electrical Power Quality Calibrator The Fluke 6100B is an electrical power standard / power quality calibrator that generates precise voltage and current waveforms including harmonics, flicker, dips/swells, and related PQ phenomena. It meets IEC 61000-4 series accuracy needs and can type-test 0.1% to 2% energy meters. Multi-phase systems use 6101B auxiliaries (6120B/6130B/6140B configurations). The Fluke 6100B is an electrical power standard / power quality calibrator that generates precise voltage and current waveforms including harmonics, flicker, dips/swells, and related PQ phenomena. It meets IEC 61000-4 series accuracy needs and can type-test 0.1% to 2% energy meters. Multi-phase systems use 6101B auxiliaries (6120B/6130B/6140B configurations).



MODEL

Fluke 6100B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6100B

LISTING

<https://aumictechlabs.com/products/6100b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 6100B is a high-precision electrical power standard that calibrates voltage, current, power, and energy measurement devices across manufacturing, service, calibration, and standards laboratory environments. It generates complex electrical signals with six-digit precision and sub-50 ppm accuracy, enabling validation of AC voltmeters, ammeters, power analyzers, wattmeters, and watthour meters. The instrument simulates real-world power quality disturbances

including harmonics, flicker, dips, swells, and interharmonics, making it essential for type testing energy meters rated 0.1% to 2% accuracy.

Technical Specifications

Voltage and Current Generation

Precision: Six digits
Voltage accuracy: Less than 0.005% (50 ppm)
Voltage output: Up to 1008 V pure sinusoidal
Current output: Up to 21 A
Phase resolution: 1 millidegree or 10 microradians
Phase accuracy (single phase): 3 millidegrees
Phase accuracy (multi-phase): 5 millidegrees between phase voltages
Phantom power from voltage terminals: Up to 50 VA
Current output compliance: Up to 14 V peak for extended cable runs and series-connected circuits

Signal Generation and Disturbances

Generates flicker, harmonics, dips, swells, interharmonics, and fluctuating harmonics
Simultaneous disturbance application supported
DC component capability: Up to 50% of range (excludes 50 A and 80 A options)
Reactive power calculation: Seven user-selectable methods for non-sinusoidal signals

Three-Phase Systems

Configurable WYE or Delta topology
Individual phase and three-phase total VA, power, and VAR display
Three-phase unbalance calculation per IEC or NEMA standard

Key Features

Meets IEC 61000-4 series power quality testing standards
Generates AC and DC voltages and currents
Supports type testing of energy meters across standard accuracy classes

Typical Applications

Power utility calibration
Energy meter validation
Power analyzer and meter verification
Research and development testing

Compatibility & Integration

The 6100B integrates with instruments requiring precise sinusoidal or distorted power signals and meets accuracy demands of current power quality testing standards.

Features & description

From manufacturer datasheet

Features

• Voltage to 1008 V; current to 21 A (50 A / 80 A options) • Up to six-digit precision; accuracy less than 0.005% (50 ppm) class • Phase resolution 1 milli-degree or 10 micro-radian class • Modular 1 to 4 phase systems • Harmonics, flicker, dips/swells

Applications

• Power quality analyzer calibration • Energy meter type testing (0.1% to 2% class) • Multi-phase Wye/Delta simulation including unbalance • Parallel current outputs for higher amperage

6100B Characteristics / Specifications

PARAMETER	VALUE
Model	6100B
Manufacturer	Fluke
Instrument Type	Electrical Power Quality Calibrator
Alias	6100B; Fluke 6100B
Max voltage	1008 V
Max current standard	21 A
Current options	50 A; 80 A
Voltage/current accuracy class	less than 0.005% (50 ppm)
Phase accuracy class	about 3 milli-degrees
Setting resolution	up to 6 digits
Phases	1 to 4 with auxiliaries
Mains	47-63 Hz; up to about 1000-1250 VA class

6100B Specifications

PARAMETER	VALUE
Fluke 6100B Electrical Power Quality Calibrator	Overview
Key Features	- Voltage to 1008 V; current to 21 A (50 A / 80 A options)
Technical Specifications	Model: 6100B
Notes	Specs from Fluke 6100B/6105A literature. Confirm options (50A/80A/E/CLK) on the chassis labels.

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	6100B
Manufacturer	Fluke
Instrument Type	Electrical Power Quality Calibrator
Alias	6100B; Fluke 6100B

Specifications

PARAMETER	VALUE
Max voltage	1008 V
Max current standard	21 A
Current options	50 A; 80 A
Voltage/current accuracy class	less than 0.005% (50 ppm)
Phase accuracy class	about 3 milli-degrees

Inter-phase voltage accuracy class: about 5 milli-degrees

Specifications

PARAMETER	VALUE
Setting resolution	up to 6 digits
Phases	1 to 4 with auxiliaries
Mains	47-63 Hz; up to about 1000-1250 VA class

Related 3-phase config name: 6130B (master + auxiliaries)

Notes

Specs from Fluke 6100B/6105A literature. Confirm options (50A/80A/E/CLK) on the chassis labels.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.