

**Aumictech**

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Data Sheet

August 13, 2026

FLUKE

Fluke Norma 6004 Portable Power Analyzer, 4-channel

The Fluke Norma 6004 is a portable 4-channel wideband precision power analyzer for voltage, current, active/reactive/apparent power, power factor, and harmonics. Four channels enable simultaneous three-phase and DC measurements for real-time inverter efficiency under real-world conditions. Alias: Norma 6004; Fluke 6004; Fluke Norma 6004 Voltage input impedance: 2 Mohm / 10 pF typical Current shunt impedance: 0.025 ohm typical Measurement update rate: 100 ms, 200 ms, 500 ms, 1 s



MODEL

Fluke 6004

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6004

LISTING

<https://aumictechlabs.com/products/6004-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke Norma 6004 is a 4-channel portable power analyzer engineered for high-accuracy field measurements of electrical power parameters across three-phase systems, DC circuits, and mechanical loads. With 0.1% measurement accuracy, 200 kS/s sample rate, and 500 kHz bandwidth, it captures power signatures with fidelity even under distorted waveforms. The instrument delivers 10 hours of continuous operation from its internal 5000 mAh Li-ion battery and stores measurement data continuously to 32 GB onboard storage for extended monitoring campaigns. Technical Specifications 4 voltage inputs, 4 current inputs Sample rate: 200 kS/s Measurement accuracy: 0.1% Bandwidth: 500 kHz Update rate: User-adjustable 100 ms to 1 s

Onboard storage: 32 GB Battery: 5000 mAh Li-ion, up to 10 hours continuous operation Safety rating: CAT III 1000V, CAT IV 600V Dimensions: 3.78 inches (9.6 cm) thickness

Key Features

- Multi-parameter analysis: voltage, current, active power, reactive power, apparent power, power factor
- Harmonics measurement to 100th order
- Display modes: meter, waveform, harmonics, vector, trend
- Simultaneous three-phase and DC power measurement
- Electrically isolated channels for flexible configuration and high CMRR
- Dual analyzer synchronization for 6 or 8 channel configurations
- USB (Mini B) and RS485 connectivity
- Open communication protocol for system integration
- Full remote control via Fluke Power Analyzer Software

Typical Applications

- Three-phase power analysis in manufacturing and energy distribution.
- R&D validation of AC/DC power supplies and conversion circuits.
- Renewable energy systems characterization.
- Mechanical efficiency measurement via optional speed and torque modules on Norma 6004+ models.

Compatibility & Integration

Included software supports online measurement, data download, and analysis. Supplied with test leads, alligator clips, USB cable, RS-485 synchrony adapter, carrying case, and power supply. Optional accessories enable measurements to 1500V DC and 2000A AC+DC on conductors up to 52 mm diameter.

Features & description

From manufacturer datasheet

Features

• 4 voltage + 4 current inputs • 0.1% accuracy class with 500 kHz bandwidth • 200 ks/s sample rate; harmonics to 100th • 32 GB onboard logging; adjustable update 100 ms-1 s • Portable ~3.5 kg class with long battery life

Applications

• Three-phase plus DC inverter efficiency measurements • Portable lab/field power and harmonics analysis • Motor drive and power-conversion system testing • Distorted-waveform power measurements

6004 Characteristics / Specifications

PARAMETER	VALUE
Model	6004
Manufacturer	Fluke
Instrument Type	Portable Power Analyzer
Alias	Norma 6004; Fluke 6004; Fluke Norma 6004
Channels	4 voltage + 4 current
Basic accuracy	0.1%
Bandwidth (1000 V range)	500 kHz
Sample rate	200 ks/s
Voltage ranges	10 V, 100 V, 1000 V
Voltage crest factor	CF ≤2
Voltage input impedance	2 Mohm / 10 pF typical
Voltage CMRR	120 dB at 50/60 Hz
Current shunt ranges	0.1 A, 1 A, 10 A
Current shunt impedance	0.025 ohm typical
Current bandwidth 10 A	500 kHz
Measurement update rate	100 ms, 200 ms, 500 ms, 1 s
Onboard storage	32 GB
Harmonics display	up to 100th
Mass class	about 3.5 kg
Battery life class	up to about 10 hours Notes Specs from Fluke Norma 6000 Series / 6004 product literature. Confirm + motor option (6004+) separately if present.
Bandwidth	200 ks/s sample rate; harmonics to 100th - 32 GB onboard logging; adjustable update 100 ms-1 s - Portable ~3.5 kg class with long battery life

6004 Specifications

PARAMETER	VALUE
Fluke Norma 6004 Portable Power Analyzer	Overview
Key Features	- 4 voltage + 4 current inputs
Technical Specifications	Model: 6004
Notes	Specs from Fluke Norma 6000 Series / 6004 product literature. Confirm + motor option (6004+) separately if present.

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	
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Model	6004
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Instrument Type	Portable Power Analyzer
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Specifications	
PARAMETER	VALUE
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Current shunt ranges	0.1 A, 1 A, 10 A
Current shunt impedance	0.025 ohm typical
Current bandwidth 10 A	500 kHz
Measurement update rate	100 ms, 200 ms, 500 ms, 1 s
Onboard storage	32 GB
Harmonics display	up to 100th
Mass class	about 3.5 kg
Battery life class	up to about 10 hours
Notes	
Specs from Fluke Norma 6000 Series / 6004 product literature. Confirm + motor option (6004+) separately if present.	

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.