

VOLTECH

PM6000

The Voltech PM6000 is a high-performance, multi-phase precision power analyzer designed for definitive measurements of electrical power on devices that consume, convert, or generate power. Combining advanced digital signal processing with up to six fully floating measurement channels and an embedded Linux PC, it provides superb accuracy, bandwidth, and common-mode rejection for demanding power analysis applications.

SPECIFICATIONS

General

Interfaces	RS-232, USB, Ethernet, GPIB
Display	VGA color display with numeric and graphic modes

Physical

Operating Temperature	5 to 40 °C °C
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Input Channels & Configuration

Maximum Number of Channels	6
Channel Isolation	Fully floating wattmeter channels
Phase Configurations	1-phase 2-wire, 1-phase 3-wire, 3-phase 3-wire, 3-phase 4-wire

Measurement Performance & Accuracy

Frequency Bandwidth	DC, 10 mHz to 10 MHz
Sampling Rate	40 MSPS
Basic Accuracy	0.02%

Data Logging, Memory & Visualization

Display Formats	Numeric and graphic (waveform, vector, trend, harmonics)
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Voltage Measurement

Maximum Voltage Input	1000 Vrms (2000 Vpk) continuous
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Current Measurement

Internal Current Shunt Options	1 A (low current) or 30 A (high current) dual-range cards
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Performance

A/D Conversion Resolution	16-bit on all channels
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Measurement Parameters

Measured Parameters	V, A, W, VA, VAr, PF, Hz, THD, Harmonics, Inrush Current, Crest Factor, Phase, Wh, Ah
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Harmonic Analysis

Maximum Harmonic Order	99
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Compliance & Standards

Safety Rating	IEC 61010-1, CAT II 1000 V, CAT III 600 V
Applicable Standards	IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12, IEC 62301

Inputs & Signal Conditioning

Voltage Input Impedance	1 MΩ
Crest Factor Capability	Up to 20:1

Measurement Performance

Phase Angle Accuracy	±(0.005° + 0.01°/kHz)
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Process Interface

Auxiliary Analog Inputs	4 channels (±10 V)
Auxiliary Pulse Inputs	2 channels (up to 1 MHz)

TECHNOLOGY

Digital Signal Processing (DSP)

APPLICATIONS

Electrical power measurement, harmonic analysis, and efficiency testing

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