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Data Sheet

August 12, 2026

HP / AGILENT

HP / Agilent 6841A 750 VA Harmonic/Flicker Test System

HP / Agilent 6841A Harmonic / Flicker Test System The 6841A is a one-box harmonic and flicker compliance test system combining an AC source, power analyzer, flicker meter, and line impedance network. It supports IEC-class testing of quasi-stationary and fluctuating current harmonics plus voltage fluctuations and flicker for single-phase products up to 750 VA. The 6841A is a one-box harmonic and flicker compliance test system combining an AC source, power analyzer, flicker meter, and line impedance network. It supports IEC-class testing of quasi-stationary and fluctuating current harmonics plus voltage fluctuations and flicker for single-phase products up to 750 VA.



MODEL HP / Agilent 6841A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 6841A	LISTING https://aumictechlabs.com/products/6841a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6841A is a 750 VA benchtop harmonic and flicker test system that combines AC power generation, power analysis, flicker metering, and line impedance simulation into a single instrument. It executes compliance testing against harmonic and flicker standards while simultaneously measuring and characterizing electrical waveforms across multiple domains. Technical Specifications Power Rating: 750 VA output Voltage Compliance Testing: 230 Vrms Voltage Maximum Rating: 300 Vrms Current Compliance Testing: 3.3 Arms Current Maximum

Rating: 6.5 Arms Output Frequency Range: 45 Hz to 1 kHz AC Input: 100 V to 240 V, single phase (universal) Operating Temperature: 0 to 40°C Physical Form: Benchtop (5.25 inches height) Key Features Generates sine, square, clipped sine, and arbitrary waveforms IEC 1000-4-7 compliant harmonic measurement IEC 868 compliant flicker metering IEC 725 reference impedance simulation GPIB and RS-232 interfaces for remote control and data transfer Memory presets for test configuration storage Included Windows™-based software for test automation and data management Software Capabilities The integrated HP Harmonic/Flicker Test System software provides test setup and execution, EUT class determination via pre-test current harmonic analysis, comprehensive data archiving, real-time graphical and tabular display, offline review with searchable parameters, user-defined test termination conditions, pass/fail assessment, and detailed report generation with diagnostic analysis. Standards Compliance Designed for products requiring validation against EN 60555-2, IEC 1000-4-7, IEC 868, and IEC 725. Typical Applications Harmonic emission testing, flicker compliance verification, power quality assessment, and equipment certification workflows requiring simultaneous source, measurement, and impedance simulation.

Features & description

From manufacturer datasheet

Features

- Integrated AC source, analyzer, flicker meter, and impedance network
- Full regulatory functionality via HP-IB and HFTS software
- Single-phase 750 VA compliance-class output
- Compact 5.25-inch panel-height chassis

Applications

- IEC 61000-3-2 / IEC 868 class harmonic and flicker compliance testing
- Single-phase product emissions pre-compliance and production test
- Combined AC source + measurement workflows without multi-box integration

6841A Characteristics / Specifications

PARAMETER	VALUE
Model	6841A
Manufacturer	HP / Agilent
Instrument Type	Harmonic / Flicker Test System
Alias	6841A; Agilent 6841A; HP 6841A
Phases	1
Power	750 VA
Compliance rms voltage	230 Vrms
Compliance rms current	3.3 Arms
Maximum rms voltage	300 V
Maximum rms current	6.5 A
Output frequency	50 Hz / 60 Hz
Panel height	5.25 in
Reference impedance accuracy	3% at 0.4 ohm and 796 uH
CV ripple and noise 20 kHz to 10 MHz relative	-60 dB
CV ripple and noise rms	300 mV
Load regulation	0.5% of full scale
Line regulation	0.1% of full scale
Maximum THD	0.25%
Programming accuracy frequency	0.01% + 10 mHz
Flicker	compliant with IEC 868
Pst integration time	1, 5, 10, or 15 minutes
Synchronization accuracy	less than 1 ppm Notes Specs from HP/Agilent 6841A harmonic/flicker test system datasheet. Confirm firmware/software and any installed options on the unit.

6841A Specifications

PARAMETER	VALUE
HP / Agilent 6841A Harmonic / Flicker Test System	Overview
Applications	- IEC 61000-3-2 / IEC 868 class harmonic and flicker compliance testing
Technical Specifications	Model: 6841A
Notes	Specs from HP/Agilent 6841A harmonic/flicker test system datasheet. Confirm firmware/software and any installed options on the unit.

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	6841A
Manufacturer	HP / Agilent
Instrument Type	Harmonic / Flicker Test System
Alias	6841A; Agilent 6841A; HP 6841A

Specifications

PARAMETER	VALUE
Phases	1
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Maximum rms voltage	300 V
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Output frequency	50 Hz / 60 Hz
Panel height	5.25 in
Reference impedance accuracy	3% at 0.4 ohm and 796 uH

CV ripple and noise 20 kHz to 10 MHz relative: -60 dB

Specifications

PARAMETER	VALUE
CV ripple and noise rms	300 mV
Load regulation	0.5% of full scale
Line regulation	0.1% of full scale
Maximum THD	0.25%

Programming accuracy voltage rms at 25 C +/-5 C: 0.15% + 0.3 V

Specifications

PARAMETER	VALUE
Programming accuracy frequency	0.01% + 10 mHz
Flicker	compliant with IEC 868
Pst integration time	1, 5, 10, or 15 minutes
Synchronization accuracy	less than 1 ppm

Notes
Specs from HP/Agilent 6841A harmonic/flicker test system datasheet. Confirm firmware/software and any installed options on the unit.

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.