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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 85901A

HP Agilent 85901A Portable AC Power Source for 8590 Analyzers The HP 85901A isaDC-to-AC inverter accessory for 8590-series portable spectrum analyzers. OEM 8590 accessory data list 10 to 20 Vdc input, 100/120 Vac 60 Hz output, and about 200 VA capacity so an 8590 portable SA can run from a vehicle battery in the field. Field powering 8590-series portable spectrum analyzers from 12 V vehicle power. Instrument Type: Portable AC power source inverter The HP 85901A isaDC-to-AC inverter accessory for 8590-series portable spectrum analyzers. OEM 8590 accessory data list 10 to 20 Vdc input, 100/120 Vac 60 Hz output, and about 200 VA capacity so an 8590 portable SA can run from a vehicle battery in the field. Field powering 8590-series portable spectrum analyzers from 12 V vehicle power. Instrument Type: Portable AC power source inverter Host Instruments: HP 8590-series portable spectrum analyzers



MODEL

**Agilent / Keysight  
85901A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**85901A**

LISTING

<https://aumictechlabs.com/products/85901a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight 85901A is a portable AC power inverter that delivers 200 Watts continuous output for field and mobile test applications. It supplies selectable 115 Vrms or 230 Vrms at 60 Hz  $\pm 0.1\%$  (crystal referenced), with rectangular waveform output specified at 135 or 270 peak  $\pm 5\%$ . The unit integrates a sealed lead acid battery (12 Vdc, 17 Ah nominal) providing up to 2 hours of operation at 100-watt continuous load, or operates from an external 12 Vdc source for extended

runtime. A built-in charger accepts 90 to 250 Vac input (auto-selected) and fully recharges the battery in six hours or less. Complete electrical protection includes over-voltage, short-circuit, and over-load safeguards on the inverter output. Technical Specifications Output Power: 200 W continuous Output Voltage: 115 Vrms or 230 Vrms (selectable) Output Waveform: Rectangular, 25% dead zone; 135 or 270 V peak  $\pm 5\%$  Output Frequency: 60 Hz  $\pm 0.1\%$  (crystal referenced) External DC Input: 10.8 to 14.5 Vdc (inverter operation) Charger Input: 90 to 250 Vac (auto-selected) Battery: Sealed lead acid, 12 Vdc, 17 Ah nominal Battery Cyclic Life: >200 cycles Recharge Time:  $\leq 6$  hours from full discharge Internal Battery Runtime: Up to 2 hours at 100 W continuous load Battery Shelf Life: 18 months at  $< 20^\circ\text{C}$ ; 12 months at  $20\text{--}30^\circ\text{C}$ ; 6 months at  $30\text{--}40^\circ\text{C}$  Charger Power Consumption: 122 VA maximum Operating Temperature:  $0^\circ$  to  $55^\circ\text{C}$  Storage Temperature (with battery):  $-20^\circ$  to  $40^\circ\text{C}$  Storage Temperature (without battery):  $-40^\circ$  to  $70^\circ\text{C}$  EMI Conformance: VDE0871 level B (conducted and radiated) Key Features Over-voltage, short-circuit, and over-load protection Dual-mode operation: internal battery or external 12 Vdc source Portable form factor with integrated carrying handle and adjustable tilt-stand Dimensions: 337 mm (W)  $\times$  125 mm (H)  $\times$  461 mm (D) Weight: 14.2 kg with battery; 8.0 kg without battery Typical Applications Spectrum analyzers (8590A, 8590E Series, 8592A, 8562A), oscilloscopes, voltmeters, and data acquisition test sets. Compatibility & Integration External 12 Vdc battery connection terminals for extended field operation independent of internal battery status.

## 85901A Characteristics / Specifications

| PARAMETER             | VALUE                                        |
|-----------------------|----------------------------------------------|
| Model                 | 85901A                                       |
| Instrument Type       | Portable AC power source inverter            |
| Input Voltage         | 10 to 20 Vdc                                 |
| Output Voltage        | 100 or 120 Vac                               |
| Output Frequency      | 60 Hz                                        |
| Output Power          | about 200 VA                                 |
| Host Instruments      | HP 8590-series portable spectrum analyzers   |
| Manufacturer          | HP Agilent Keysight                          |
| Mechanical Package    | portable inverter accessory                  |
| Application           | field operation from vehicle battery         |
| Nominal Vehicle Input | 12 Vdc class within 10-20 Vdc                |
| Output Selection      | 100 Vac or 120 Vac                           |
| Family                | 8590 portable spectrum analyzer accessories  |
| Duty                  | continuous within VA rating                  |
| Cooling               | inverter airflow as fitted                   |
| Grounding             | follow 8590 chassis grounding in the vehicle |
| Protection            | observe input voltage window 10-20 Vdc       |
| Frequency Standard    | 60 Hz output                                 |
| Use Case              | replace AC mains for portable 8590           |
| Documentation         | 8590-series accessory data 85901A            |
| Input Connector       | DC input as on the 85901A                    |
| Output Connector      | AC outlet for the 8590 line cord             |
| Host Family           | 8590 portable spectrum analyzers             |

# 85901A Specifications

| PARAMETER                | VALUE                                                                           |
|--------------------------|---------------------------------------------------------------------------------|
| Applications             | Field powering 8590-series portable spectrum analyzers from 12 V vehicle power. |
| Key Features             | 10-20 Vdc input to 100/120 Vac 60 Hz                                            |
| Dedicated 8590 accessory | Select 100 or 120 Vac output                                                    |
| Technical Specifications | Model: 85901A                                                                   |

# 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                                                                                                                                                                                    | 85901A                                       |
| Instrument Type                                                                                                                                                                          | Portable AC power source inverter            |
| Input Voltage                                                                                                                                                                            | 10 to 20 Vdc                                 |
| Output Voltage                                                                                                                                                                           | 100 or 120 Vac                               |
| Output Frequency                                                                                                                                                                         | 60 Hz                                        |
| Output Power                                                                                                                                                                             | about 200 VA                                 |
| Host Instruments                                                                                                                                                                         | HP 8590-series portable spectrum analyzers   |
| Manufacturer                                                                                                                                                                             | HP Agilent Keysight                          |
| Mechanical Package                                                                                                                                                                       | portable inverter accessory                  |
| Application                                                                                                                                                                              | field operation from vehicle battery         |
| Nominal Vehicle Input                                                                                                                                                                    | 12 Vdc class within 10-20 Vdc                |
| Output Selection                                                                                                                                                                         | 100 Vac or 120 Vac                           |
| Family                                                                                                                                                                                   | 8590 portable spectrum analyzer accessories  |
| Duty                                                                                                                                                                                     | continuous within VA rating                  |
| Cooling                                                                                                                                                                                  | inverter airflow as fitted                   |
| Grounding                                                                                                                                                                                | follow 8590 chassis grounding in the vehicle |
| Protection                                                                                                                                                                               | observe input voltage window 10-20 Vdc       |
| Frequency Standard                                                                                                                                                                       | 60 Hz output                                 |
| Use Case                                                                                                                                                                                 | replace AC mains for portable 8590           |
| Documentation                                                                                                                                                                            | 8590-series accessory data 85901A            |
| Input Connector                                                                                                                                                                          | DC input as on the 85901A                    |
| Output Connector                                                                                                                                                                         | AC outlet for the 8590 line cord             |
| Host Family                                                                                                                                                                              | 8590 portable spectrum analyzers             |
| Notes                                                                                                                                                                                    |                                              |
| From HP 8590-series accessory data for 85901A portable AC power source (10-20 Vdc in, 100/120 Vac 60 Hz, ~200 VA). Confirm output-voltage switch setting for the analyzer line selector. |                                              |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.