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Agilent Technologies

Innovating the HP Way

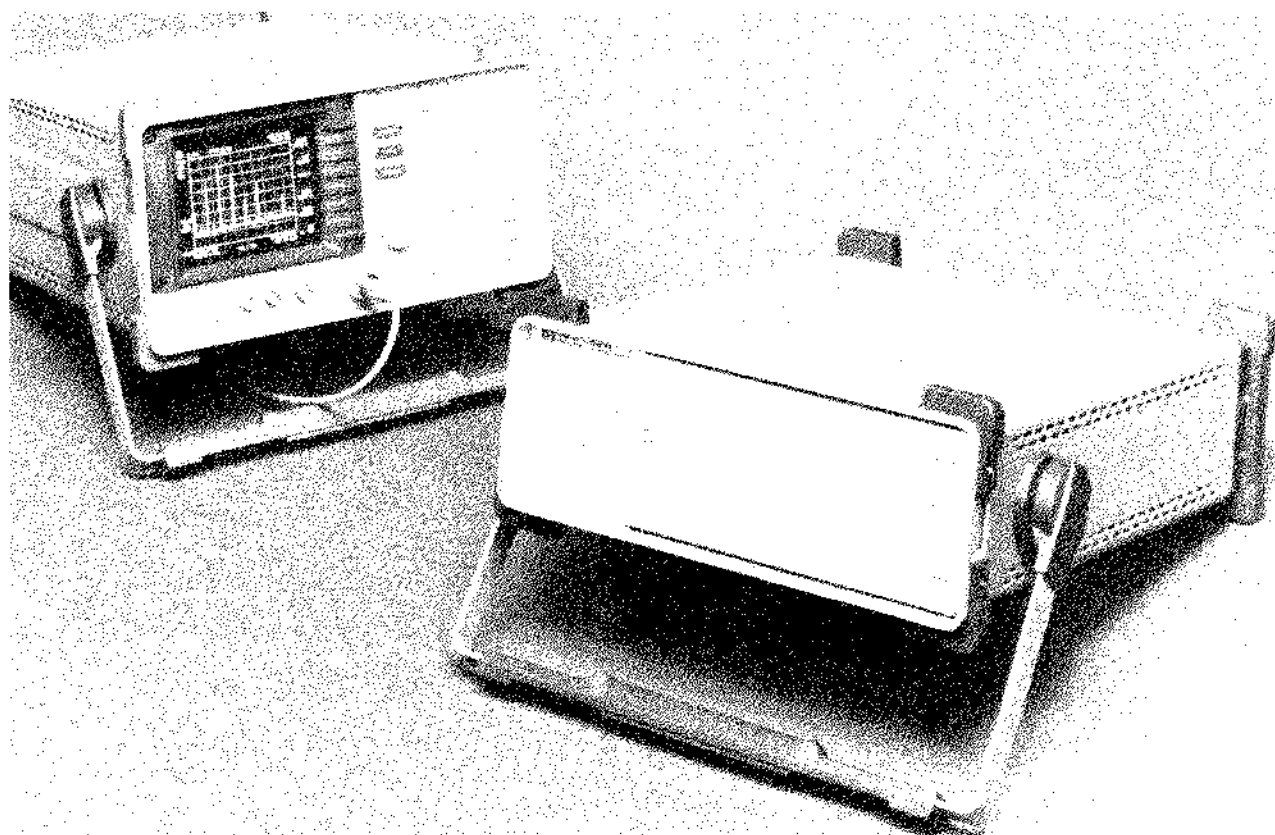
HP 85901A AC Power Source



**HEWLETT
PACKARD**

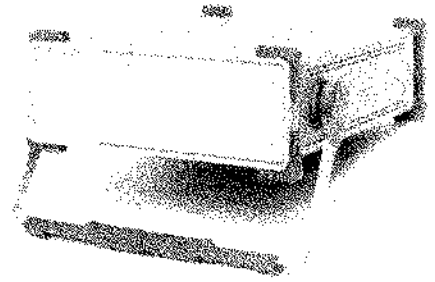
HP Quality in a Portable Battery Package
AC Power Where You Need It — When You Need It

Technical Data



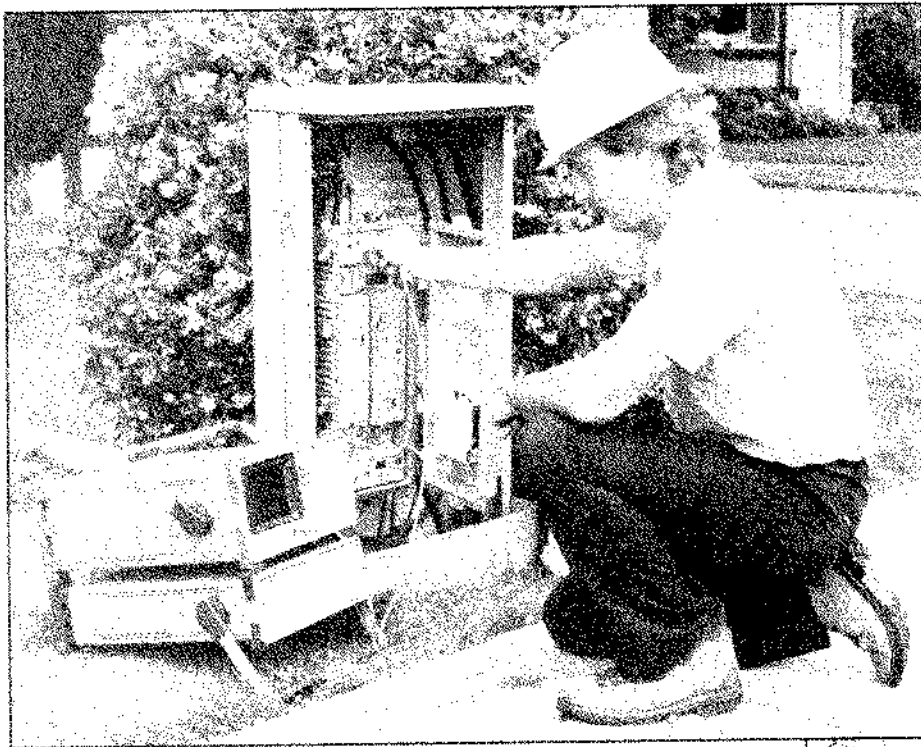
Portable Power that Meets Your Needs

- 200 Watts continuous output
- 115 Vrms or 230 Vrms output
- Internal battery or external 12 Vdc source
- Built-in charger
- Up to 2 hour operation of HP 8590A Spectrum Analyzer
- Easy to carry



Remote Power Where You Need It

Take the guesswork out of field measurements! The HP 85901A Portable AC Power Source works with your test equipment to provide the power you need, where you need it. The power source is small, with a briefcase handle that makes it easy to carry and it fits into tight spots, even under an airline seat. You can use the built-in battery of the power source or connect it to an external 12 Vdc source for even longer operation.

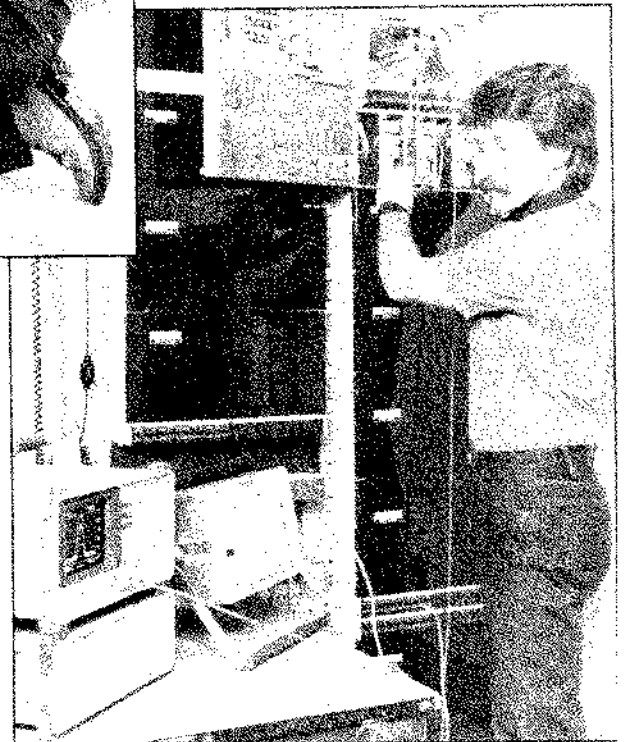


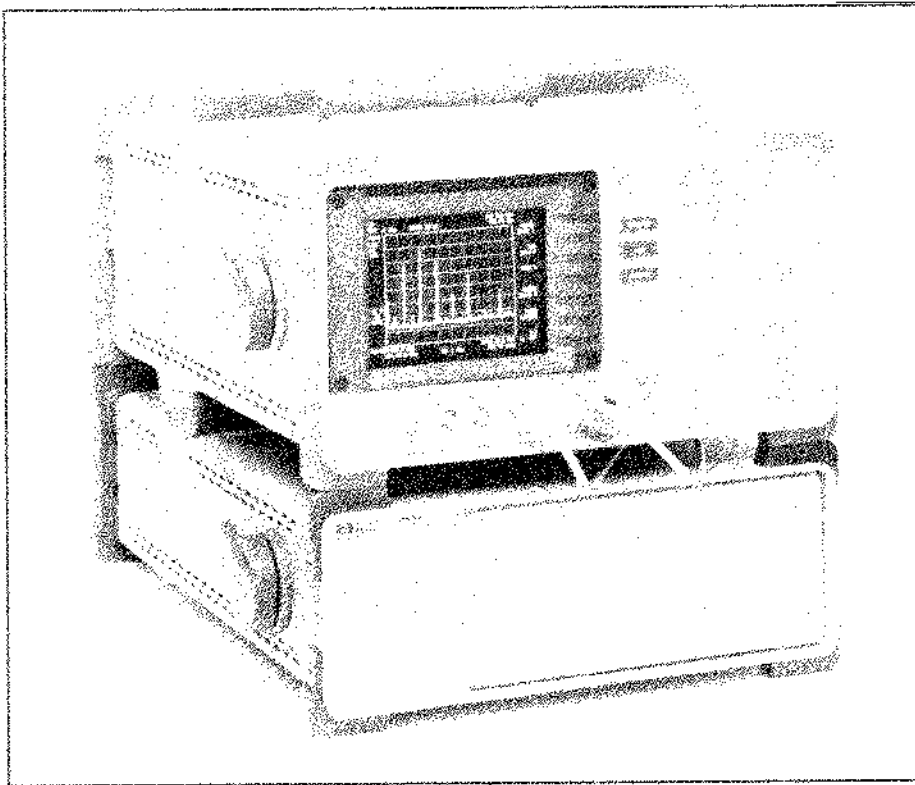
Easy to Use

Just plug your test equipment into the HP 85901A AC Power Source and turn the instrument on. You'll get more than an hour of operation at 100 Watts continuous load.

When the battery charge gets low, the power source automatically shuts off. This prevents any deep discharge degradation. You can recharge the battery in six hours or less from the point of full discharge.

The gel-cell battery is readily available worldwide. Of course it can be purchased from Hewlett-Packard.



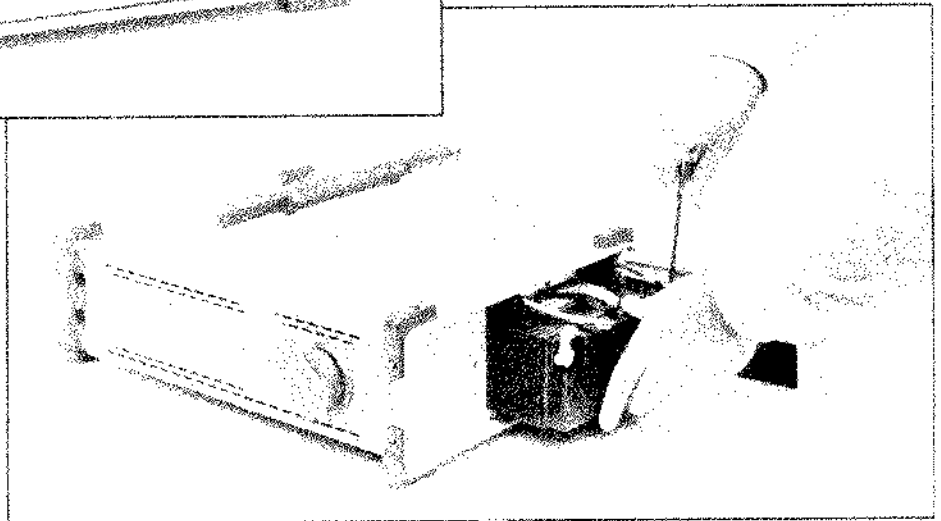


Built-In Protection

The HP 85901A AC Power Source protects itself and your test equipment. It has over-voltage, short-circuit, and over-load protection on the inverter output. The power source also has over-voltage protection on the inverter input and over-charge and over-discharge protection for the internal battery.

Designed for Reliability

No compromises were made in designing the HP 85901A Portable AC Power Source. Its gel-cell battery, control circuitry, and charger all fit into a briefcase-sized package similar to our HP 8590A Portable Spectrum Analyzer. The internal battery of the power source, in its own rugged box, is accessible through a front-panel door and can be replaced by removing just two screws.



High Quality Goes Anywhere

So now you can make measurements anywhere. An HP 85901A will provide power for your HP portable 8590A/8592A/8562A spectrum analyzers; for your oscilloscopes, voltmeters, and data acquisition test sets; or for whatever needs power. Make your tests where they are needed — when they are needed!



SPECIFICATIONS

The following specifications apply to the HP 85901A AC Power Source. **Specifications** describe the instrument's warranted performance over the 0° C - 55° C temperature range, except where noted. All specifications apply after the instrument's temperature has stabilized (typically 30 min. from turn-on). For complete specifications and characteristics refer to the Operation and Service Manual (85901-90001).

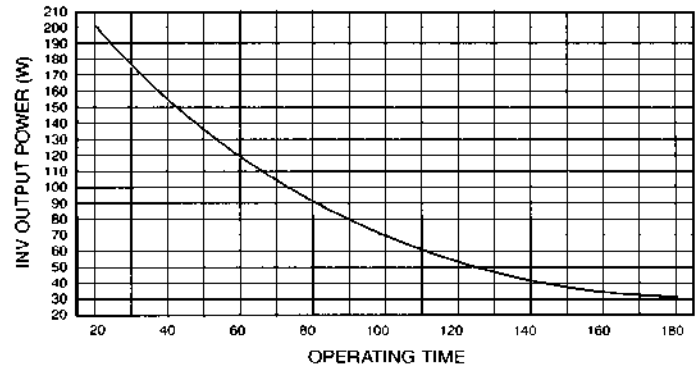
INPUT	
Inverter	
Voltage	10.8 to 14.5 Vdc
Charger¹	
Voltage	90 to 250 Vac Auto Selected
Frequency	47 to 66 Hz
Power Consumption	122 VA Maximum

OUTPUT	
Inverter	
Voltage	135 or 270 peak $\pm 5\%$ Rectangular Waveform with 25% Dead Zone (115 or 230 Vrms $\pm 5\%$)
Frequency	60 Hz $\pm 0.1\%$, Crystal REF
Maximum Power	200 Watts Continuous

BATTERY SHELF LIFE (Typical)	
Storage Temperature	Recharge Interval
< 20° C	18 months
20° to 30° C	12 months
30° to 40° C	6 months

GENERAL	
Environmental	
Temperature²	
Operating	0° to 55° C
Storage ²	
with Battery	-20° to 40° C
w/o Battery	-40° to 70° C
EMI	
Conducted	VDE 0871 Level B
Radiated	VDE 0871 Level B
Battery^{3, 4}	
Type	Sealed Lead Acid
Voltage	12 Vdc (Nominal)
Capacity	17 AMP-Hour (Nominal)
Mechanical (Nominal)	
Dimensions	337(w) x 125(h) x 461(d) mm
Weight (with battery)	14.2 kg (31.3 lbs)
Weight (w/o battery)	8.0 kg (17.7 lbs)
Shipping Weight	16.3 kg (36.0 lbs)

TYPICAL OPERATING TIMES VERSUS LOAD
HP 85901A



ORDERING INFORMATION

HP 85901A AC Power Source
(Includes 17 Amp-Hour Battery and One Power Cord Adapter for use with HP Instruments, the 8120-5220 HP Interconnect)

HP Power Cord Adapter
(The power cord adapter is used for connecting HP instruments to one of two female CEE22-V output connectors on the HP 85901A AC Power Source.)
8120-5220 Extra HP Interconnect

General Purpose Power Cord Adapters
(These allow country specific line cords to be plugged into the HP 85901A AC Power Source.)
8120-5210 European
8120-5211 U.S.A.
8120-5212 United Kingdom

- Turning the charger on automatically turns the inverter off.
- Shelf life of battery decreases with either extended operation or storage at higher than 40° C.
- Battery cyclic life (charge-discharge) is nominally rated at more than 200 cycles.
- Battery is a Matsushita Electric LCR12V17P lead acid gel-cell. Battery is also available from Hewlett-Packard as part number 1420-0373.

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

United States: Hewlett-Packard Company, 4 Choke Cherry Road, Rockville, MD 20850.
Hewlett-Packard Company, 5201 Tollview Drive, Rolling Meadows, IL 60008.
Hewlett-Packard Company, 5161 Lankershim Blvd., No. Hollywood, CA 91601.
Hewlett-Packard Company, 2015 South Park Place, Atlanta, GA 30339.

Canada: Hewlett-Packard Ltd., 6877 Goreway Drive, Mississauga, Ontario L4V1M8.

Australia/New Zealand: Hewlett-Packard Australia Ltd., 31-41 Joseph Street, Blackburn, Victoria 3130, Melbourne, Australia.

Europe/Africa/Middle East: Hewlett-Packard S.A., Central Mailing Department, P.O. Box 529, 1180 AM Amstelveen, The Netherlands.

Far East: Hewlett-Packard Asia Ltd., 22/F Bond Centre, West Tower, 89 Queensway, Central, Hong Kong.

Japan: Yokogawa-Hewlett-Packard Ltd., 29-21, Takaido-Higashi, 3-chome, Suginami-ku, Tokyo 168.

Latin America: Latin American Region Headquarters, Monte Pelvoux Nbr. 111, Lomas de Chapultepec, 11000 Mexico, D.F. Mexico.

Data Subject to Change

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