



Fig. 4. Rear-panel connectors were selected for safety and ease of use.

sometimes undesirable side effects, often caused by EMI from the switch that is controlling the power. The 14570A, with its very quiet switching, can cure many of these problems. As an extra benefit, the 14570A has an ac line filter that not only limits the peaks of any spikes that occur on the incoming line, but also reduces the rise time of the portion of the spike that cannot be clipped. This reduces the possibility that these fast edges will be capacitively coupled into sensitive equipment connected to the 14570A.

The 14570A has three independent sections, so it can be used in applications where distribution of three-phase power is desired. This also permits control of a mixture of 120V and 240V power.

Acknowledgments

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Ray Robertson earned a BS degree in electrical engineering from Newark College of Engineering in 1967, and an MS degree in computer science from New Jersey Institute of Technology in 1982. He joined HP in 1978 and was a production engineer before becoming project leader on the 14570A. Before coming to HP, he served three years in the U.S. Army and worked for a variety of electronics companies. Ray was born in the Bronx, New York, is married, lives in Rockaway Township, New Jersey, and has two sons. He is a co-inventor on two patents, one on an electronic lock system and the other on an automatic optical comparator, and his work on the 14570A has resulted in a third patent application. In his spare time he enjoys numismatics, rebuilding a vacation home, home computers, stained glass lamp building, and raising ducks.

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