

# product brief

## Power Conditioning Database



As more sensitive end-use loads penetrate industry, power disturbances are having an increasingly noticeable effect on the productivity of your connected customers.

Downtime, damaged process equipment, and inferior product quality are the results of system incompatibility and power disturbances. Your connected customers are paying closer attention to power quality and its effect on their bottom line. Shouldn't you do the same?

Both you and your customers devote considerable effort and capital to keeping critical systems up and running through power quality events. Adding fault tolerance to critical systems reduces downtime and maintenance problems, while increasing customer satisfaction and profitability. System hardening can often be best achieved through the proper application of power conditioning equipment, which requires an understanding of both the equipment and its interactions with the protected system.

Keeping up with new developments in this field can be difficult and time consuming, even if you happen to be an expert. EPRI has created the Power Conditioning Database in response to your need for timely, accurate, and comprehensive information about power conditioning equipment.

## Provide Power Conditioning Solutions to Increase Productivity and Profits

### PRODUCT DESCRIPTION

The Power Conditioning Database is an interactive web application that assists you with the selection, application, and specification of power conditioning equipment. Located on EPRIweb and accessible via your Internet browser, the Power Conditioning Database provides you with powerful tools to help solve real-world problems.

The database contains instructional pages that explain the many facets of power conditioning applications—from the basics of power disturbances to detailed technical descriptions of power conditioning equipment. Real-time database tools help you specify and select the proper equipment for a given power quality situation. The database contains comprehensive market data from the United States and Europe to help you evaluate the revenue potential of Premium Power.

### DESCRIPTION OF FEATURES

The database is organized in two sections: Information and Database Tools. The Information section describes the effects of power quality disturbances and suggests conditioning equipment to mitigate them. The Database Tools section provides answers to your questions about the selection of appropriate power conditioning equipment.

### INFORMATION SECTION

Designed for novice and expert users alike, the Power Conditioning Database Information section outlines the basics of power conditioning applications, power disturbances, and their effects on various equipment types. Unfamiliar or subject-specific words are explained in the extensive glossary that is instantly accessible through *hotwords*. The information section also provides detailed

technical information on specific power conditioning equipment, including:

- Description of operation
- Disturbances mitigated
- List of suppliers
- Required specifications
- EPRI test data
- Related EPRI documents, such as application notes
- Market data from the United States and Europe
- Extensive glossary definitions

#### **DATABASE TOOLS**

Based on your input, the Database Tools section helps narrow your solution options, simplifying the equipment selection and application process. The Power Conditioning Database is equipped with three database tools that provide answers to a variety of questions about power conditioning equipment.

#### **DATABASE TOOL 1—POWER DISTURBANCE SEARCH**

Assists you in finding solutions to known disturbances in the power supply by matching power disturbances to power conditioning equipment solutions. To use this tool, simply select the applicable disturbance and the database will recommend the most appropriate power conditioning solutions.

#### **DATABASE TOOL 2—LOAD PROTECTION SEARCH**

Provides information on protecting specific load types from power disturbances. For *new installations*, this tool accesses information about how to protect sensitive equipment from known power disturbances before problems start. For loads that are *already installed* but experiencing problems, the search tool helps to troubleshoot and mitigate existing equipment faults.

#### **DATABASE TOOL 3—EQUIPMENT SEARCH**

Assists in the selection and purchasing phase of a project. Specify as much or as little about the requirements for a type of power conditioning equipment and the Power Conditioning Database will provide feature lists, model names, and contact information for manufacturers whose products meet your specifications.

#### **BENEFITS**

The Power Conditioning Database provides several unique and important tools to help you solve power quality problems. Regardless of your level of technical expertise, this user-friendly tool will help you to:

- Gain a better understanding of power conditioning solutions
- Provide added value to your connected customers by:
  - troubleshooting power sensitive loads
  - suggesting appropriate power conditioning equipment solutions
  - assisting in the selection and specification of power conditioning equipment
- Develop new products and services for your power quality business offerings

Using these tools to help connected customers solve power quality problems can ultimately result in fewer customer complaints, higher perceived value, increased customer satisfaction, and greater profits for you and your connected customers.

**AVAILABILITY** The Power Conditioning Database can be accessed from the EPRI Power Quality Software Services and Support Target <http://www.epriweb.com/csg/pqx/39/> homepage on EPRIweb.

**CONTACT INFORMATION** For more information contact the EPRI Customer Assistance Center at 800-313-3774 or [askepri@epri.com](mailto:askepri@epri.com).

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