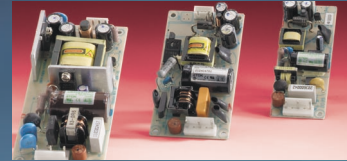


# KEPCO || POWER SUPPLIES

Instrumentation and Modular Power Supplies  
for System, Bench and the OEM



# HOW TO USE THIS KEPCO CATALOG

Kepeco's 2002 power supply catalog contains a selection guide to assist in finding the appropriate product: one for instrumentation power supplies on page 11 and one for modular power supplies on page 79. The product sections of this catalog are divided into six distinct sections:

**UNIPOLAR POWER SUPPLIES** include those models which are capable of operational amplifier-like control. These are models which can function like power amplifiers and which scale and sum control voltages into powerful analogs of the control. Many are capable of fast-programming. Included in this section are digital to analog converters which enable Kepeco's analog power supplies to accept digital instructions from the IEEE 488 GPIB.

**BIPOLAR POWER SUPPLIES** include those models which have a built-in GPIB capability for stand-alone application in test systems. The series BOP are capable of four-quadrant operation. This section also includes several groups which support Kepeco's single address multiple instrument protocol. These power supplies are especially suited for multi-rail power systems. As many as 27 separately addressable, isolated power outputs can be controlled from a single IEEE 488 GPIB host.

**SPECIAL PURPOSE POWER SUPPLIES** include hot-swap models for N+1 redundancy application, and models configured as float-equalize battery chargers for use in telecommunications applications. The hot swaps are mechanically arranged to plug easily into rack housings for simple exchanges. These models have forced current sharing enabling them to be paralleled and or-ing (blocking) diodes to isolate each from their neighbors. The TBC battery chargers are rated from 300 to 3000 watts in the popular battery voltages. They use switch-mode technology for high efficiency and feature a timer on the equalize cycle to limit a battery's overcharge.

**PROGRAMMABLE MODULES** include single-output, industrial grade power supplies in the range 300-1500 watts using switch-mode technology with power factor correction (PFC). They are analog-programmable from zero to 110% of rated voltage. Linear models are available in 20 and 50 watts.

**COMMERCIAL GRADE POWER SUPPLIES** include both single-output and multi-output models in open frame or pc card construction. Optional enclosures are available for all open models. A feature of many of the models in this group is a low height profile that allows these modules to be mounted in tight places.

**INDUSTRIAL GRADE POWER SUPPLIES** are fully enclosed single-output modules that range in power from 50 watts to 1500 watts. Many models feature a wide range a-c mains input (typically 90-264V a-c) with power factor correction (PFC). The models above 350 watts include means for forced current sharing to enable paralleling. A group of ferroresonant power supplies called PRM are included in this section. PRM range in power from 60 watts to 450 watts. They are frequency sensitive and can only be used on the 60Hz mains frequency for which they are designed. Many models have been adapted for 50Hz operation.

**DIN-RAIL** includes the many Kepeco modular power supplies that can be fitted with clips suitable for mounting onto a DIN-Rail. Many models are listed to UL 508.

**THE POWER ASSEMBLY PROGRAM** is explained in this section of the catalog. Kepeco offers an assembly service by which any of our power modules, industrial or commercial grade, can be assembled for you into one of a variety of rack-mount housings. In this section, we illustrate some typical assemblies designed and built for customers and explain how you can specify a custom assembly.

**MODELS CATALOGED ELSEWHERE.** This section briefly describes products that are fully cataloged in other Kepeco catalogs.

**MODELS NO LONGER IN STANDARD PRODUCTION** are described briefly in this section of this catalog. In most instances, modern replacements are available. Some models may be available on a build-to-order basis. If you wish to order one of the models that are no longer routinely produced, please contact our sales staff for advice.

**APPLICATIONS HANDBOOK.** This popular part of our catalog explains in detail how Kepeco power supplies are used, how they work, how they may be controlled, how they may be combined and how they interact. The section is liberally illustrated with schematics and block diagrams to show exactly what the connections do. If you have a question about analog or digital programming, a question about the control of current, or about hot swapping, check out this section first.

**GLOSSARY.** A unique and sometimes confusing vocabulary has evolved over the years to describe power supply behavior. This glossary is intended to show how we use these words in specifying Kepeco power supplies and to decode some of the acronyms.