

## 2-Inverter Assembly for the Power Electronics Lab

### FEATURES

- Two completely independent 3-phase PWM inverters for full simultaneous control of up to two machines
- 42 V DC-bus voltage to reduce electrical hazards
- Digital PWM input channels for real-time digital control
- Complete digital / analog interface with the DSP-based DS1104 controller
- Over-voltage and independent over-current fault protection for each inverter

### DESCRIPTION

Vishay is a proud provider of the hardware for the Power Electronics Lab, based on the approach in the textbook **Power Electronics: Converters, Applications and Design**.

The 2-inverter PCA (printed circuit assembly) provides two 3-phase PWM inverters used to perform a variety of experiments involving various AC/DC machines, motors, and rectifier systems in the Power Electronics Lab, based on the approach in the textbook **Power Electronics: Converters, Applications and Design**, written by Ned Mohan, Tore M. Undeland, and William P. Robbins; and the Electric Drives Lab based on the approach in the textbook **Electric Machines and Drives: A First Course** by Ned Mohan.

This product is commonly used with Vishay product numbers 75771: 37-Pin DSUB Cable and 87784: 8-Pin Encoder Cable. Both of these cables are also used in Power Electronics Lab experiments.

