

Power-Pole Assembly for the Power Electronics Lab



FEATURES

- Configurable power-pole PCA to perform various power electronics experiments
- 42 V DC-bus voltage to reduce electrical hazards
- Configurable between on-board PWM control and an externally driven PWM source
- Complete digital / analog interface with active current sensing
- Over-voltage and over-current fault protection for each inverter
- Includes pre-made separate “daughter” PCAs for experiments demonstrating flyback, buck-boost, and forward converter topologies

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 power-pole PCA (printed circuit assembly) provides a reconfigurable totem-pole circuit to conduct several experiments 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.