

Power Control Assembly Selection Guide Enerpro Types PCM, PCA, and PCP

Features:

- Isolated Base SCR Modules
- Industry-Standard Digital LSI-Based Firing Circuits
- Fully Connectorized, DIN-Rail Terminal Strips and Relays
- Soft-Start and Soft-Stop Circuitry
- Snubber Boards for Transient Suppression
- Open Loop or Closed Loop Control (with Enerpro Regulator Boards)
- Enable Status and Fault Read-Backs
- Automatic Over-Temperature Protection
- Open Frame, With or Without Mounting Panels
- NEMA Style Enclosures Available
- Single Phase, Three Phase, or Six Phase Operation
- 3D CAD Models Available for Easier Systems Integration
- Customized to Your Application



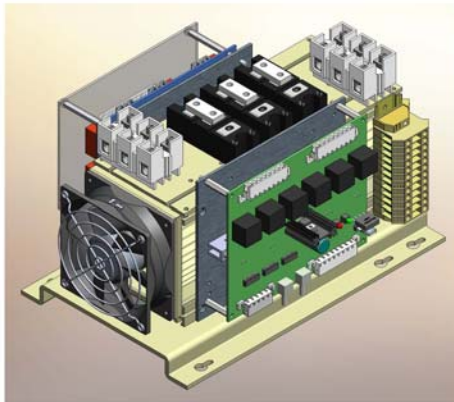
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Enerpro open-frame SCR power control assemblies are fully engineered for high performance in hundreds of open-loop and regulated power control applications, including battery chargers, reversing electrocoagulation rectifiers, wind turbine controllers, industrial plating rectifiers, welding equipment, and motor soft-starters.

To better serve your SCR power control application needs, please specify your exact requirements on the second page of this document. Submit this form along with your RFQ and any additional specifications or documentation.

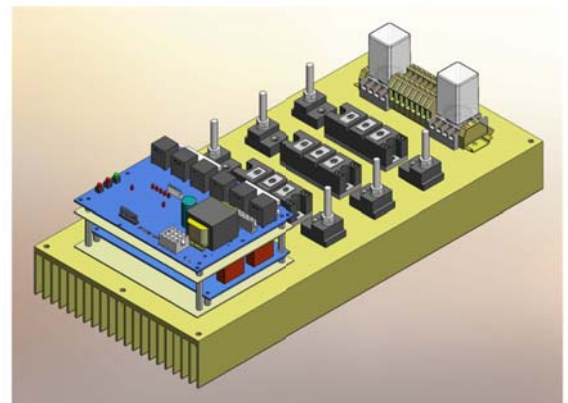


PCM Series Power Control Module

- Assembled on Wakefield #392 extrusion
- Compact power control at output currents to 225 A_{RMS}
- Depicted with optional fan and mounting plate

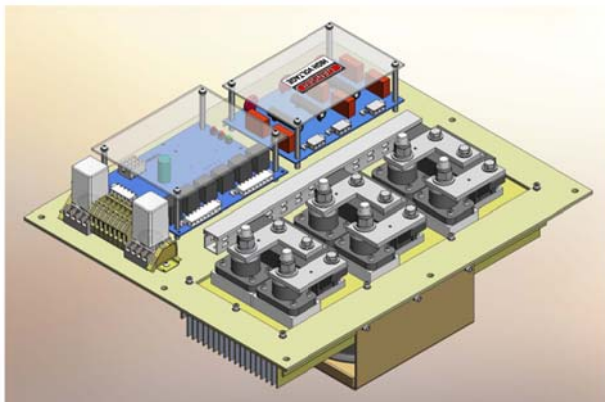
PCA Series Power Control Assembly

- Assembled on low-profile heatsink
- Terminal block or stud line connections
- Typical controller configuration depicted



PCP Series Power Control Panel

- PCA or PCM styles on mounting panel
- High current capability to 1600 A_{RMS}
- Ideal for forced air plenums or mounting through electrical cabinet walls
- Typical controller configuration depicted with optional cooling fan and bracket



Assembly Type

- PCM, Power Control Module
- PCA, Power Control Assembly
- PCP, Power Control Panel

Voltage and Current

AC Input Voltage: _____ VAC 1-Phase 3-Phase 6-Phase
Mains Frequency: 50/60 Hz Specify: _____
Output Voltage: _____ Max Output Current: _____ Duty Cycle: _____%

Circuit Type

- AC Controller
- DC Converter, Two-Quadrant
- DC Converter, Four-Quadrant

Firing Circuit Regulation

- Open Loop (Delay angle command)
- Voltage Regulation
- Current Regulation

Environmental and Physical Specifications

Desired maximum envelope size: _____ x _____ x _____ (H x W x L) inches cm
Assembly mounting orientation (along long axis): Horizontal Vertical* *If Vertical, please choose line or load connection @ the top.
Mounting Plate: No Yes LINE CONNECTION @ TOP LOAD CONNECTION @ TOP
Severe environment (shock, vibration, humidity) No Yes (If yes, describe in "Additional Requirements" below)
Maximum ambient temperature: _____ °C
Cooling: Natural Convection (Low current) Cooling Fan (On assembly)
 Forced Air (Customer-supplied) Minimum air flow available: _____ CFM

Control and Feedback Signals

Delay Angle Command (open loop): 0-5 VDC 0-10 VDC 4-20 mA Other, specify: _____
Instant Enable/Inhibit: Customer-provided contact closure Relay (Coil voltage: _____ AC DC)
Soft Enable/Inhibit: Customer-provided contact closure Relay (Coil voltage: _____ AC DC)
Soft-start time: _____ ms Soft-stop time: _____ ms
Enable Status Signal: Current-limited open drain transistor Relay Contacts (Dry contacts, NC NO)
 Fan over-temperature switch (Automatically enables fans at 60 C heat sink temperature if installed)
 Over-temperature instant inhibit (Instantly inhibits SCR firing at 93 C heat sink temperature if installed)
 Heat sink temperature sensor assembly (100-ohm platinum element RTD for external temperature monitoring)

Application Description

Additional Requirements