

# DARRAH ELECTRIC COMPANY

Power Conversion Solutions - Distribution - D.C. Power Supplies



## Distributor Products



### AAVID Thermalloy, LLC

- Standard and Custom Aluminum Extrusions
- Liquid Cooled Chill Blocks
- Bonded Fin Heat Sinks



### ABB Semiconductors

- Phase Control Thyristors
- GTO Thyristors
- Rectifier Diodes
- Power Assemblies
- IGBT Modules
- IGCT, Integrated Gate-Commutated Thyristors



### CRYDOM, Inc.

- Diode Modules
- Thyristor Modules
- Solid State Relays
- TVS Transient Voltage Suppressors
- I/O Modules
- AUX Function Modules



### Dynex Semiconductor, Ltd.

- Fast Recovery and Rectifier Diodes
- Phase Control Thyristors
- Water / Air Cooled AC Switches
- Pulsed Power Thyristors
- GTO Thyristors
- IGBT Modules



### Enerpro, Inc.

- Single and Three Phase SCR Firing Circuits
- Twelve-Pulse Firing Circuits
- Voltage and Current Regulator Boards
- Medium Voltage SCR Firing Circuits
- Transient Snubber Circuits
- Motor Starters



### ICONOPOWER Limited

- Precision Clamps for Press Pack Power Semiconductors
- Accurate Pre-Calibrated Force
- Built-in Force Indicator
- Highest Di-Electric Strength
- Single & Double Insulated Modules Available
- 5 Clamp Styles Available



### IXYS Corporation / Westcode Semiconductors Ltd.

- Thyristor/Diode Modules
- SCR's (Thyristors)
- Schottky and Ultra Fast Diodes
- Rectifier Diodes and Bridges
- Power MOSFETS
- Discrete IGBT's & Modules
- Fast Recovery Diodes
- Breakover Diodes (BOD)



### LEM Components

- Isolated Measurements of Current and Voltage
- Open and Closed Loop Technology
- Galvanically Isolated
- PCB and Panel Mountings
- Current Transducers 10mA to 10,000A
- Voltage Transducers 10V to 6,400V

METAL OXIDE VARISTORS  
SELENIUM SUPPRESSORS

- Selenium Surge Suppressors
- MOV's Metal Oxide Varistors



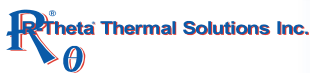
### Microsemi Corporation

- Schottky and Ultra Fast Rectifiers
- Twin Tower and Isoblock Modules
- Single & Three Phase Rectifier Bridges
- Surface Mount Power Modules
- High Rel Power Modules
- High Voltage Assemblies



### POWEREX, Inc.

- Rectifier Diodes
- SCR's (Thyristors)
- IGBT Modules
- SCR/Diode Modules
- Air/Water Cooled Assemblies
- IGBT Gate Drivers
- Pow-R-Paks (IGBT Assemblies)
- DC-DC Converters
- Pow-R-Brik
- Custom Modules
- Intelligent Power Modules



### R-Theta® Thermal Solutions, Inc.

- Mixed Metals Fabfin
- Hollow Fin
- Heat Sink Extrusions
- Liquid Cooled Aquasinks
- Bonded Fin
- Custom Extrusions



### RoMan Manufacturing, Inc.

- Chokes and Inductors
- Medium Frequency Transformer/Rectifiers
- Water Cooled Transformer/Rectifiers, sizes ranging from 10 KA through 40 KA
- Water Cooled A.C. Transformers



### Times Electric Co., Ltd.

- Power Semiconductors
- Current/Voltage Sensors
- Speed and Temperature Sensors
- Pulse Transformers
- Current Transformers
- Rectifier Diodes
- SCR's (Thyristors)
- Heatsinks
- Power Resistors



### Transformers Inductors

- U.L. Listed 15-500 kVA, Copper or Aluminum Wound, Single and Three Phase Transformers
- Inductors, Chokes, and Line Reactors
- Ripple Filters and Harmonic Filters
- Power Distribution Transformers
- Test Supply Transformers
- Testing and Evaluation of units up to 1,000 kVA



### Wakefield Thermal Solutions

- Standard and Custom Aluminum Extrusions
- Bonded Fin Heat Sinks
- Folded Fin, Stack Fin, and Swage Fin Heat Sinks
- Board Level Heat Sinks
- Power Semiconductor Clamps
- Cold Plates
- Thermal Greases and Thermal Transformer Products

800-621-0014 | [www.darrahelectric.com](http://www.darrahelectric.com)

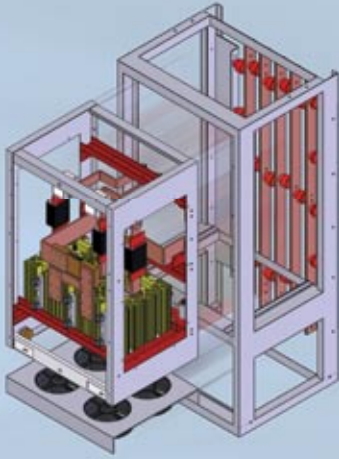


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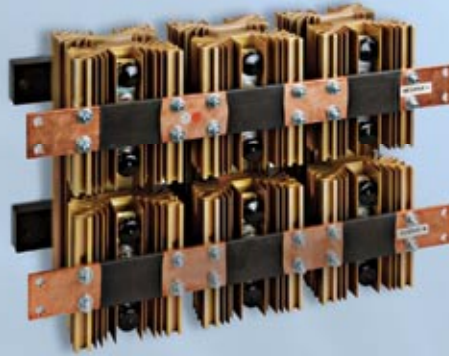


## Power Conversion Solutions



### Draw Out Semiconductor Designs

- Two and Four Quadrant SCR Bridges
- Single and Three Phase AC Switch Configurations
- Air Cooled Capacities to 4,000 Amps
- Easily add Parallel Systems with Change in load demand
- Hot Swappable
- Offers N + 1 Redundancy



### Stud, Module, and Press Pack Assemblies

- 5 – 10,000 Amps to 6,500 Volts
- Air and Water Cooled
- All circuit configurations from half wave through 12-pulse designs
- Inverter, Converter, and AC Switches
- Drop-In, Form, Fit, and Functional Replacements



### IGBT Assemblies

- Air and Water Cooled Designs
- Diode or SCR front end rectifiers
- D.C. filter capacitors
- IGBT snubber capacitors
- IGBT firing circuits

## D.C. Power Supplies



### Controls

- Switchmode, SCR and Variable Transformer Controls
- Regulated and Non-regulated D.C. Current and Voltage
- Tap Switch or Stepped Selection
- PLC Interface Controls
- Six and Twelve Pulse Designs
- D.C. Polarity Reversing Switches
- Rectifier Replacements Parts and Service

### Markets

- Plating & Anodizing
- Electro-Polishing and Electro-Coating
- Battery Eliminators & Chargers
- Glass / Furnace
- Resistance Heating



**Air and Water Cooled Designs – Models available to 50,000 Amps, 1,000 Volts D.C.**

# DARRAH ELECTRIC COMPANY

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