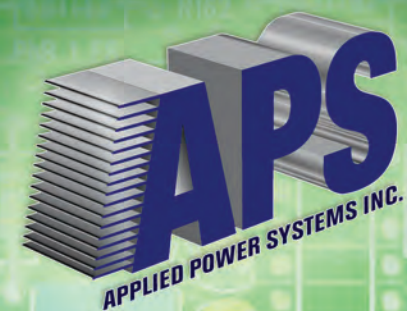


INVERTERS

DRIVER BOARDS

ASSEMBLIES

CONVERTERS

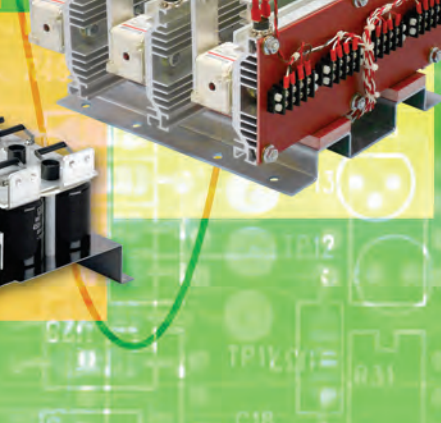
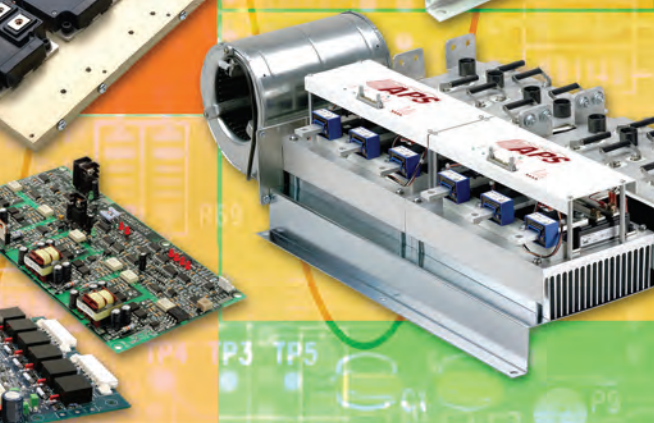
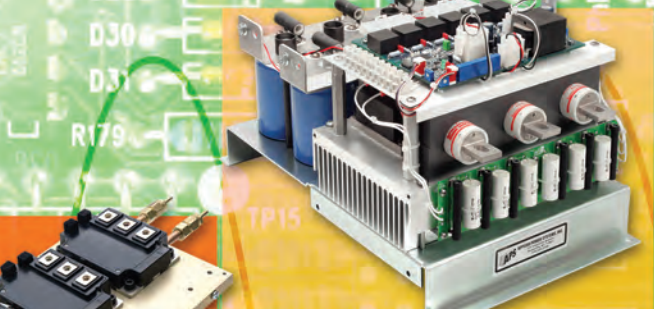
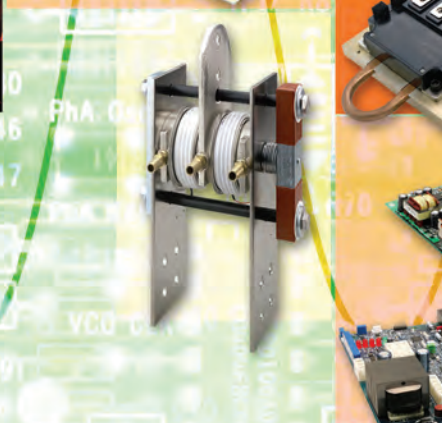


# The Driving Force In Power Electronics

## Industries Served:

APS power products are used to improve efficiency, reliability, and quality of the electric power in:

- ▶ Oil & Gas
- ▶ Motors & Drives
- ▶ Distributed Generation
- ▶ Alternative Energy - Solar, Wind & Wave
- ▶ Transportation - Rail, Aerospace & Marine
- ▶ Heavy Industries - Steel, Mining, Welding & Plating
- ▶ Power Transmission & Distribution
- ▶ Energy Storage - Battery Charging
- ▶ Industrial Power Systems
- ▶ Medical



## Applied Power Systems, Inc.

is an industry leading manufacturer of advanced power conversion products, power electronic controls and high power semiconductor thermal management solutions. Focused exclusively on power electronics, APS provides innovative, leading-edge, quality-engineered products to satisfy the most demanding requirements and withstand the harshest environments.

APS's comprehensive standard high power products include IGBT Inverter Stacks, AC/DC, DC/DC, DC/AC Converters, Motor Drives & Controls, Battery Chargers, AC Phase Controllers, Ultra-Precise Power Supplies, High Power Rectifier Bridges, Fiberoptic Interfaces, Snubber Boards and Gate Driver Boards for IGBTs, SCRs, & MOSFETs, along with a full complement of high power semiconductor assemblies, heatsink kits and clamps.

### Applied Power Systems, Inc.

124 Charlotte Ave., Hicksville, NY 11801, U.S.A.  
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In addition to standard products, APS possesses the unique cross-functional skills, deep industry experience, and practical expertise to develop next generation custom power designs in applications such as Grid Tie & Bi-Directional Inverters, Battery & Energy Storage Systems and Microgrids.

APS: The Driving Force in Power Electronics.



## Product Selection Guide

- ✔ High Power IGBT Inverter Stacks
- ✔ Driver Boards for IGBT, SCR, and MOSFET
- ✔ Air and Liquid Cooled High Power Semiconductor Assemblies
- ✔ High Voltage Driver Boards for IGBT and SCR
- ✔ MOSFET Linear Power Amplifiers
- ✔ Smart Battery Chargers
- ✔ High Voltage, Pulsed Power Systems
- ✔ High Power Ultra-Precision Power Supplies



# INVERTERS

## Air Cooled/Liquid Cooled High Power Inverters

| Applications Include   | Circuit Configurations  | Available Options  |
|--|---|--|
| <ul style="list-style-type: none"> <li>Inverters</li> <li>UPS</li> <li>Motor Drives</li> <li>Battery Chargers</li> <li>Power Factor Correction</li> <li>Power Supplies</li> <li>Motor Starters</li> <li>Alternative Energy</li> <li>Traction Inverters</li> <li>Electric Vehicles</li> <li>Rail</li> </ul> | <ul style="list-style-type: none"> <li>Full Bridge</li> <li>Half Bridge</li> <li>3-Phase Bridge</li> <li>Chopper</li> <li>Soft Start</li> </ul> | <ul style="list-style-type: none"> <li>Air or Liquid Cooled</li> <li>Voltage Feedback</li> <li>Current Feedback</li> <li>Thermal Feedback</li> <li>Snubbers</li> <li>Laminated Bus</li> <li>DC Filter Capacitors</li> <li>Fuses</li> <li>Blowers/Fans</li> </ul> |

VOLTAGE: 100V to 3,300V | CURRENT: 50A TO 4,200A

Custom Versions Available

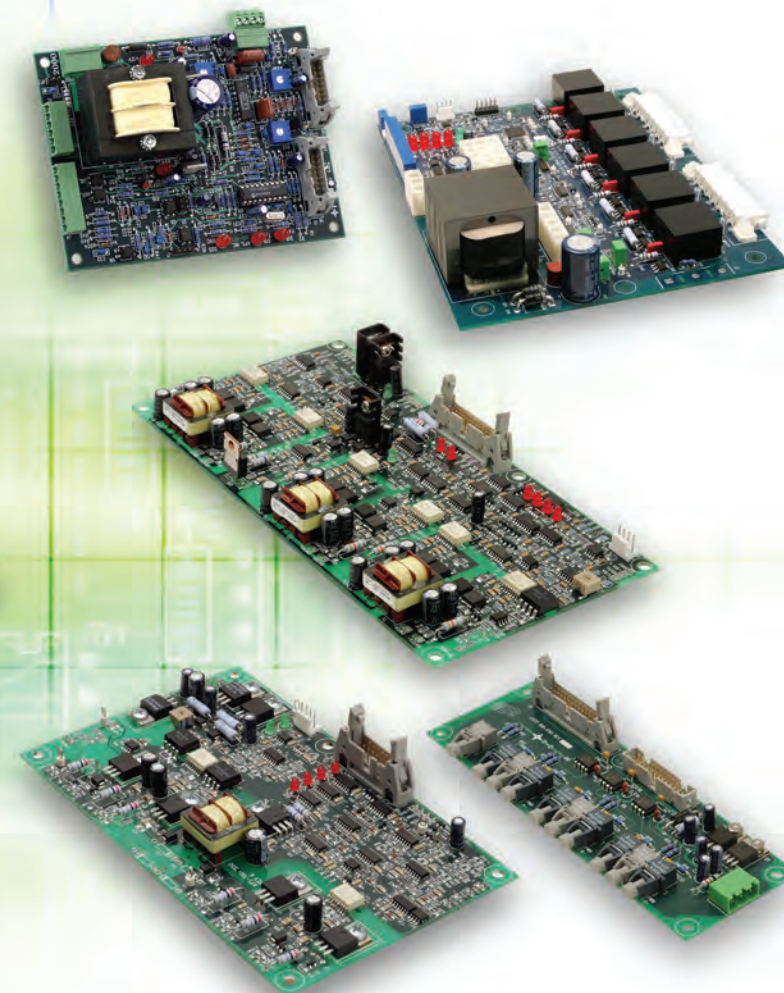


# DRIVER BOARDS

## Drivers for IGBTs, SCRs, and MOSFETs

| Applications Include  | Circuit Configurations   | Available Options  |
|---|--|--|
| <ul style="list-style-type: none"> <li>Inverters</li> <li>UPS</li> <li>Motor Drives</li> <li>Battery Chargers</li> <li>Motor Brakes</li> <li>Power Supplies</li> <li>HV Pulse Switches</li> <li>Transportation</li> <li>Induction Heating</li> <li>Welding</li> <li>Rail</li> </ul> | <ul style="list-style-type: none"> <li>Full Bridge</li> <li>Half Bridge</li> <li>3-Phase Bridge</li> <li>Single</li> <li>Doubler</li> <li>Twelve Pulse</li> <li>Eighteen Pulse</li> <li>Twenty-Four Pulse</li> <li>AC Switch</li> <li>High Voltage Driver</li> </ul> | <ul style="list-style-type: none"> <li>Voltage Feedback</li> <li>Current Feedback</li> <li>Thermal Feedback</li> <li>Device Fault Protection</li> <li>Circuit Protection</li> <li>Fiber Optic Interface</li> <li>Open &amp; Closed Loop</li> </ul> |

Custom Versions Available



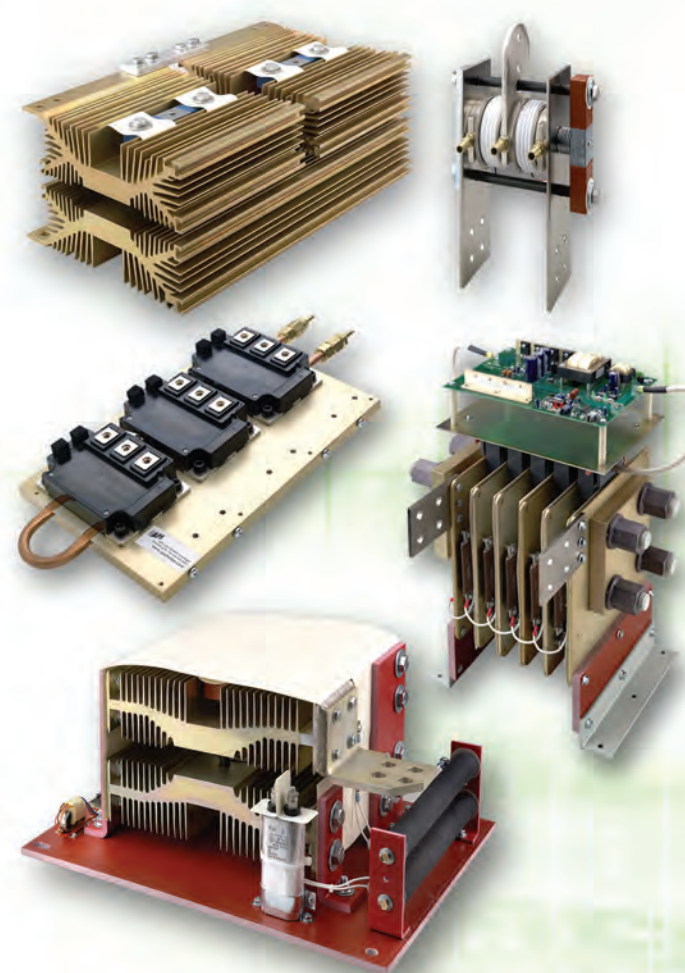
# ASSEMBLIES

## Power Semiconductor Assemblies, Heatsink Kits and Clamps

| Applications Include  | Circuit Configurations   | Available Options   |
|---|--|---|
| <ul style="list-style-type: none"> <li>Power Supplies</li> <li>AC Phase Controllers</li> <li>Motor Starters</li> <li>UPS</li> <li>AC/DC Converters</li> <li>Soft Start</li> <li>Motor Drives</li> <li>Static Converter</li> <li>Induction Heating</li> <li>Welding</li> <li>Pulsed Power</li> <li>Traction</li> </ul> | <ul style="list-style-type: none"> <li>Single</li> <li>Doubler</li> <li>Three Phase</li> <li>Full Bridge</li> <li>Series Stacks</li> <li>Parallel Configuration</li> <li>AC Switch</li> <li>Static Switches</li> <li>Common Anode/ Common Cathode</li> </ul> | <ul style="list-style-type: none"> <li>Air or Liquid Cooled</li> <li>Bus Bars</li> <li>Gate Firing Circuits</li> <li>Fuses</li> <li>Snubbers</li> <li>Blowers/Fans</li> <li>Thermal Switches</li> <li>Insulated Mounting</li> <li>FiberOptic Interface</li> </ul> |

VOLTAGE: 100V to 20,000V | CURRENT: 30A TO 80,000A

Custom Versions Available



# CONVERTERS

## AC to DC Converters/AC to AC Controllers, Air Cooled/Liquid Cooled

| Applications Include  | Circuit Configurations  | Available Options  |
|---|---|--|
| <ul style="list-style-type: none"> <li>AC/DC Converters</li> <li>AC Phase Controllers</li> <li>Power Supplies</li> <li>UPS</li> <li>Static Converter</li> <li>Soft Start</li> <li>Induction Heating</li> <li>Welding</li> </ul> | <ul style="list-style-type: none"> <li>Single Phase</li> <li>Three Phase</li> <li>Poly Phase</li> <li>AC Switch</li> <li>Parallel Configuration</li> <li>Static Switches</li> </ul> | <ul style="list-style-type: none"> <li>Air or Liquid Cooled</li> <li>Voltage Feedback</li> <li>Current Feedback</li> <li>Thermal Feedback</li> <li>Snubbers</li> <li>Laminated Bus</li> <li>DC Filter Capacitors</li> <li>Output Bus Bars</li> <li>Blowers/Fans</li> </ul> |

VOLTAGE: 50V to 5,000V | CURRENT: 30A TO 30,000A

Custom Versions Available

