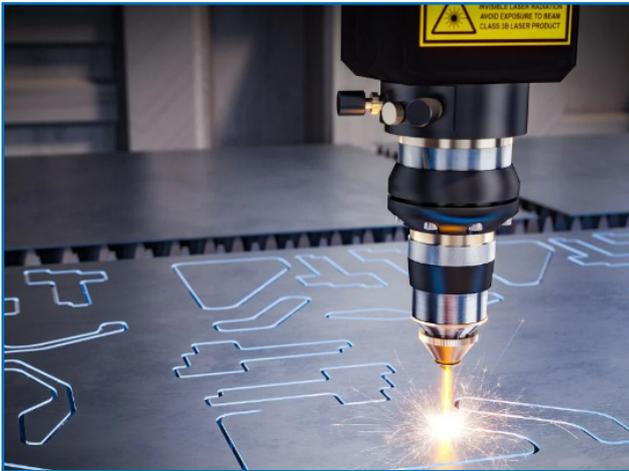


Astrodyne TDI & Alcom



Power solutions for optimum performance

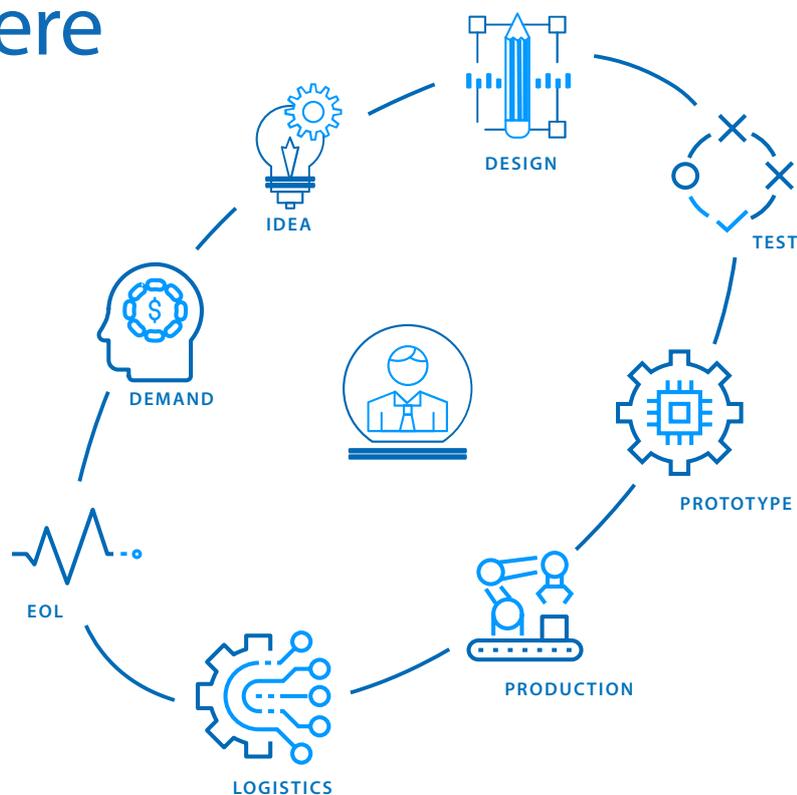
Liquid cooled power technology and standard & customizable EMI filters for demanding applications

From off the shelf standard power supplies to complete customized power systems, the solution is always as close as Astrodyne TDI.

We are able to deliver rapidly prototypes that meet harsh environmental requirements.

Alcom electronics' certified ATDI engineers are ready to advise you on your next project.

Co-creation starts here



Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.



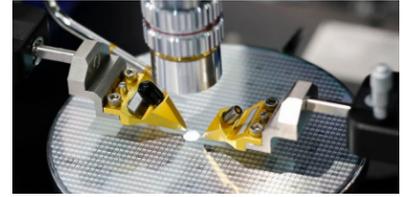
Applications & Markets



MEDICAL



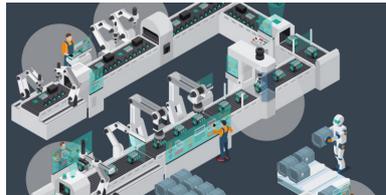
INDUSTRIAL



SEMICONDUCTOR FAB EQUIPMENT



MILITARY & AEROSPACE



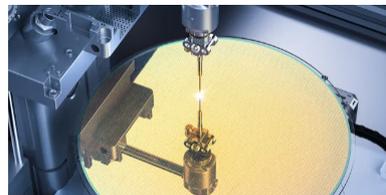
FACTORY AUTOMATION



PRO-GRADE CONSUMER APPLIANCES



HYDROGEN GENERATION



ALTERNATIVE HEATER CONTROLS



EV CHARGING

Focussed solutions



Various power supply cooling methods :

- conduction cooling
- convection cooling
- air cooling
- liquid cooling

Providing EMI / EMC filters for :

- commercial applications
- industrial applications
- medical applications
- military applications

AC/DC Power distribution & control systems

- power distribution
- safety features
- remote communication
- output monitoring and control

Product overview

Power Supplies by coolant type



Liquid Cooled

As the name implies, liquid-cooled Power Supplies use water to cool down the system, resulting in immense power capabilities with little noise.



Forced Air

Air-cooled solutions can provide full control of output voltage, current and power along with optimal integrations and optimization opportunities for complex systems.



Conduction Cooled

Conduction cooled power supplies allow the internal heat loads to be conducted to an external metal enclosure.



Convection Cooled

Convection cooled power supplies are a great solution for aggressive physical environment and deliver high standards of dependability, reliability and value.

Power Distribution Units

AC/DC Power Distribution & Control System



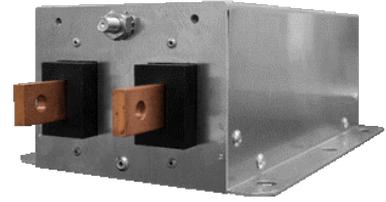
Custom PDUs offer effective and efficient implementation of power distribution, safety features, remote communication, output monitoring, and control.

Power distribution is the fundamental functionality of a PDU. Astrodyne TDI will work closely with the end-user to set requirements, stipulating the number of connections, along with their power rating. Current capabilities range from small PDUs delivering 100's of watts to large scale Power Systems delivering 100's of kilowatts.

New product releases

COMPACT HIGH CURRENT DC EMI POWER LINE FILTER WITH 1000V CAPABILITY

The RP681 series offers a range of rated currents, including 250A, 320A, 400A, 600A, 800A, and 1000A. It features a single-stage line filter and is available with Bus Bars to support high current capability. With its compact and high-current, high voltage design, the RP681 series is optimized for various applications, including high-power rectifiers, inverters, induction charging, industrial chargers, solar applications.



COMPACT HIGH CURRENT DC EMI POWER LINE FILTER WITH 1000V

This compact solution supports voltages up to 1000V and offers a range of rated currents from 250A to 1000A. Optimized for various applications including high-power rectifiers and solar applications, the RP681 series is the ideal choice for current-generation DC fast chargers. With agency approvals and adjustable Y-cap value, it delivers exceptional performance in demanding environments. Download the datasheet and request a sample to experience its compact design and outstanding performance.

AC/DC POWER DISTRIBUTION UNITS & CONTROL SYSTEMS

Power distribution is the fundamental functionality of a PDU. Astrodyne TDI will work closely with the end-user to set requirements, stipulating the number of connections, along with their power rating. Current capabilities range from small PDUs delivering 100's of watts to large scale Power Systems delivering 100's of kilowatts. Supported power input sources include: uninterruptible power supplies (UPS), power supplies (PSU), and utility power sources (AC Main), orbattery power (DC); ...



LIQUACORE 5.5KW WATER-COOLED POWER SUPPLY

Providing high-operating efficiency along with excellent reliability, compact size, and easy maintainability, LiquaCore™ power supplies are the ideal solution for embedded DC systems in demanding industrial and military applications. A fully adjustable, wide-range DC output is configurable via digital interface with real-time feedback.

INTRODUCING THE 3-PHASE INPUT FOR THE MIGHTY 3.8KW MERCURYFLEX!

Upgrade your power supply with the new MercuryFlex 3.8kW. Enjoy increased flexibility and compatibility for power-hungry industries with expanded input options and a compact form factor. Delivering up to 15.2kW of power, the MercuryFlex allows for seamless adjustments to voltage, current, and power. Explore our range of options with three-phase input and various output ranges.



POST REGULATORS FOR HIGH SLEW RATE PULSED CURRENT APPLICATIONS

Utilizing optimized, high-frequency switch mode technology, an improved AC to pulsed DC output power system is provided. This system can provide output current slew rates greater than 1,000A/ms while also managing component reliability considerations resulting from thermal fatigue and safe operating conditions.

Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	WIRELESS EMBEDDED CONNECTIVITY & SENSORS	WIRELESS & INDUSTRIAL CONTROLS NETWORKING	DISPLAY & TOUCH
LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

<ul style="list-style-type: none"> • Semiconductors • Frequency & timing • Power management • Circuit protection & discretes • Magnetics • Passives & electromechanical • Connectors & cable assemblies • Photonics 	<ul style="list-style-type: none"> • Wireless modules • Antenna's • Sensors
<ul style="list-style-type: none"> • Routers & gateways • Wireless embedded computers • Industrial ethernet and IP variations • Wired & wireless machine networking • Antenna's • Device to cloud solutions • Connectivity & remote management services • Networking & connectivity 	<ul style="list-style-type: none"> • Displays • Touch screens • Optical bonding • Total display solutions
<ul style="list-style-type: none"> • LED light sources • Optics • Thermal management • Power & intelligent controls • LED modules 	<ul style="list-style-type: none"> • AC/DC power supplies • DC/DC converters • Power management modules • Wireless charging • E-mobility solutions • Transformers & power inductors • UPS • EMC filters
<ul style="list-style-type: none"> • Tablets • PDA's • Vehicle mount computers • Accessories 	<ul style="list-style-type: none"> • Computer-on-modules • Embedded boards • Industrial PC & automation • System integration

Bridging the gap between technology, people and business with a human interface.





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Get to know us

ALCOM PROVIDES THE WORLD'S MOST ADVANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

