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EMI FILTER SOLUTIONS

*Globally Recognized Reliable Solutions with
Unmatched Engineering Support*

ASTRODYNE TDI | +1.908.850.5088 | WWW.ASTRODYNETDI.COM



WHO WE ARE...

ATDI manufactures dependable Power and EMI Filter solutions that enhance, protect, and save lives. As a global leader in demanding power conversion applications, where reliability is critical, we are known for delivering high-precision variable DC sources, resolving EMC & RF issues, and delivering quick-turn and integrated power distribution units. With over 60 years in the power industry and over 1000 employees worldwide, we guarantee UNMATCHED ENGINEERING SUPPORT to a variety of applications including industrial, medical, semi-fab equipment, EV chargers, military, shielded rooms, and consumer.

ENGINEERED SOLUTIONS FOR DEMANDING APPLICATIONS.

ATDI specializes in designing and manufacturing standard and custom EMI filters. With over 60 years of experience supporting professional-grade appliances, and military, aerospace, commercial, industrial, and medical applications, our team has the expertise to ensure compliance and help expedite product release. With ongoing investments in R&D and continuous improvements to maintain our support as a global industry leader, we are committed to providing first-class in-house and on-site services to our customers.

ATDI utilizes the combined power of our three brands—LCR Electronics, Radius Power, and Filter Concepts—to provide a full spectrum of standard products ranging from 1A to 2,500A across commercial, medical, industrial, military, and facility applications. In addition, we offer custom-designed EMI power line filters and integrated modules to meet the exact specifications and application needs.

ATDI offers no-charge pre-compliance testing and solution design support to our customers at four state-of-the-art EMI test labs in the US, Europe, and China. Our design and compliance engineering teams provide expert support to bring our customers' equipment into compliance, and to market quickly and efficiently.



PRE-COMPLIANCE TESTING & SAFETY AGENCY CERTIFICATIONS

Astrodyne TDI offers two testing capabilities to customers — EMC pre-compliance testing and UL/ IEC certification services. With EMI testing locations at Hackettstown, NJ, Santa Clara, CA, Kunshan, China, and Duisburg, Germany, facilities, Astrodyne TDI can simplify your validation process while expediting safety agency certification, saving your team time and money.

UL, CSA & IEC CERTIFICATION

With a level 4 satellite laboratory at Hackettstown, NJ, ATDI has all the physical resources, equipment, and qualified personnel required to conduct safety testing, equivalent to UL and Intertek laboratory testing.

The Data Acceptance Program gives us control of product certification process, allowing us to deliver speed and flexibility. Our laboratory testing scope enables us to get North American safety approvals per UL 60939 and CSA 22.2 No.8, and European /International approvals per IEC/EN 60939-3.

STAGE 4 OF THE INTERTEK SATELLITE™ PROGRAM

ACCURACY, LOWER COST AND QUICK TIME TO MARKET

The in-house pre-compliance testing and agency certification capabilities ensure that our customers will:

- ✓ Mitigate the risk of emissions/agency failures and avoid potential retesting and recertification expenses
- ✓ Shorten safety approval lead times
- ✓ Expedite product launch

Our experienced engineers design COTS and custom EMI solutions to provide high-reliability performance in every application. When your work with Astrodyne TDI, you can be confident that your equipment is assured to comply timely and cost-effectively!



MARKETS

MEDICAL

Diagnostic Systems,
Surgical Equipment,
Imaging, Hospital
Lighting, MRI Rooms

CONSUMER

Home & Restaurant
Appliances,
Floor Cleaning,
Exercise Equipment

INDUSTRIAL

Power Converters,
Processing Equipment,
Alternative Energy,
Factory Machinery

MILITARY

Military and
Tempest Equipment,
Commercial
Aerospace

SEMICONDUCTOR

Front End and Back
End Equipment,
OEM Fabrication
Equipment

Single-Phase EMI Filter Solutions

089(M)		✓			
089H(M)		✓			
091(M)	✓	✓	✓		
092(M)	✓	✓	✓		
095		✓	✓		
DSC1000		✓			
DSC2000		✓			
RP100	✓	✓	✓		
RP105	✓	✓			
RP110	✓	✓	✓	✓	✓
RP115	✓	✓			
RP120		✓	✓		✓
RP125			✓		
RP130	✓	✓	✓		✓
RP135	✓		✓	✓	✓
RP190			✓		
RP210	✓	✓	✓	✓	
RP2180	✓	✓			
RP220		✓	✓		
RP225	✓	✓	✓		
RP230		✓	✓		✓
RP240			✓	✓	✓
RP500			✓		
RPC1199	✓		✓		

3-Phase Delta EMI Filter Solutions

RP300	✓		✓	✓	✓
RP305	✓	✓	✓	✓	✓
RP310		✓	✓		
RP320	✓		✓		
RP325			✓		
RP327	✓				
RP328	✓		✓		

MARKETS	MEDICAL	CONSUMER	INDUSTRIAL	MILITARY	SEMICONDUCTOR
	Diagnostic Systems, Surgical Equipment, Imaging, Hospital Lighting, MRI Rooms	Home & Restaurant Appliances, Floor Cleaning, Exercise Equipment	Power Converters, Processing Equipment, Alternative Energy, Factory Machinery	Military and Tempest Equipment, Commercial Aerospace	Front End and Back End Equipment, OEM Fabrication Equipment
RP330	✓		✓	✓	✓
RP350			✓		✓
RP357			✓		
RP359			✓		
RP360	✓		✓		✓
RP370			✓		
RP380	✓		✓		
3-Phase WYE EMI Filter Solutions					
RP400	✓		✓		✓
RP405		✓	✓		✓
RP410		✓	✓		
RP410HP		✓	✓		
RP415			✓		
RP420	✓				✓
RP425	✓		✓		✓
RP428			✓		
RP480	✓		✓		
RPC1195	✓		✓		
RP1197	✓		✓		
DC EMI Filter Solutions					
RP190			✓		
RP600			✓		
RP600C			✓		
RP605			✓	✓	
RP610			✓	✓	
RP615			✓	✓	
RP650			✓		
PR655			✓		

MARKETS	MEDICAL	CONSUMER	INDUSTRIAL	MILITARY	SEMICONDUCTOR
	Diagnostic Systems, Surgical Equipment, Imaging, Hospital Lighting, MRI Rooms	Home & Restaurant Appliances, Floor Cleaning, Exercise Equipment	Power Converters, Processing Equipment, Alternative Energy, Factory Machinery	Military and Tempest Equipment, Commercial Aerospace	Front End and Back End Equipment, OEM Fabrication Equipment
RP680			✓		
RP690			✓		
RP692			✓	✓	
RP695			✓		
RP695H			✓		
RPC1158			✓	✓	
RPC1299			✓	✓	

IEC Inlets & Power Modules

080(M)	✓	✓	✓		
080S(M)	✓	✓			
080SH(M)	✓	✓			
080SV(M)	✓	✓			
080SVH(M)	✓	✓			
081 (M)	✓	✓			
082(M)	✓	✓			
082S(M)	✓	✓			
083(M)	✓	✓			
084(M)	✓	✓			
084S(M)	✓	✓			
085(M)	✓	✓			
085S(M)	✓	✓			
RP180	✓	✓	✓		
RP182CD			✓		
RP182CS			✓		
RP185	✓	✓	✓		
RP186			✓		
RP187	✓	✓	✓	✓	
RP188	✓	✓	✓		
RP188HSN	✓	✓	✓		

Feed-Thru EMI Filter Solutions

056			✓		
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MARKETS

MEDICAL

Diagnostic Systems,
Surgical Equipment,
Imaging, Hospital
Lighting, MRI Rooms

CONSUMER

Home & Restaurant
Appliances,
Floor Cleaning,
Exercise Equipment

INDUSTRIAL

Power Converters,
Processing Equipment,
Alternative Energy,
Factory Machinery

MILITARY

Military and
Tempest Equipment,
Commercial
Aerospace

SEMICONDUCTOR

Front End and Back
End Equipment,
OEM Fabrication
Equipment

Facility, MRI/Shielded Room EMI Filter Solutions

o57	✓				
058	✓				
059	✓				
F	✓			✓	

Tempest EMI Filter Solutions

RPT5000				✓	
RPT5500				✓	
RPT5510				✓	
RPTC				✓	

MIL-COTS EMI Filter Solutions

F9100				✓	
F9200				✓	
RPM6000				✓	
RPM6200				✓	
RPM6400				✓	
RPM6600				✓	
RPM7000				✓	
RPM7020				✓	
RPM8000				✓	
RPM8500				✓	
RPM9000				✓	
RPMC5014				✓	

Single-Phase EMI Filter Solutions

Astrodyne TDI provides a full selection of standard Single-Phase EMI filters ranging from 1A to 200A. Single-phase filters are available in varying leakage current versions with multiple lines of standard products to meet the general purpose, as well as medical and military requirements. Our team will modify these standard products as needed to meet your unique application needs.

Single-phase EMI Filters suppress the electromagnetic noise generated by a wide range of appliances and equipment. With the help of our experienced team and comprehensive product line, you can be assured of finding the perfect EMI filter solution for your application.

Custom Solutions

If you can't find what you're looking for in our catalog, we also offer fully custom products for many industries and applications.

Custom solutions are designed to meet your exact specifications and provide compliance with both industry standards and international EMI regulations. Contact Astrodyne TDI for more information.

Applications of Single-Phase

- ✔ Exercise Equipment
- ✔ Food Service Equipment
- ✔ PWM Circuits
- ✔ Home Appliances
- ✔ Power Supplies
- ✔ Induction Cooking Equipment
- ✔ Motor Controllers
- ✔ Industrial Lighting
- ✔ Microwave Ovens
- ✔ Gaming Machines
- ✔ Medical Equipment
- ✔ HVAC
- ✔ Ultrasonic Cleaners



Single-Phase EMI Filter Solutions

General specifications: 120/250/300VAC, ambient rating 40°C/50°C, 50/60Hz operation. Consult individual datasheet for details and specific agency approval.

<p>DCS1000 Series 16A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Dual Stage Power Line Filter ✓ Current Rating: 16 Amps ✓ Single-Phase Filters ✓ QD tab and wire leads option 	<p>DCS2000 Series 20A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Dual Stage Power Line Filters ✓ Current Rating: 20 Amps ✓ Single-Phase Filters ✓ QD tab and wire leads option 	<p>091(M) Series 1-40A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Single Stage Power Line Filter ✓ Current Rating: 1, 3, 6, 10, 15, 20, 25, 30, and 40 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and stud option 
<p>092(M) Series 1-30A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Dual Stage Power Line Filters ✓ Current Rating: 1, 3, 4, 6, 7, 8, 10, 15, 16, 20, and 30 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and stud option 	<p>095(M) Series 5-16A</p> <ul style="list-style-type: none"> ✓ Single Stage Power Line Filters ✓ Current Rating: 5, 6, 12, and 16 Amps ✓ Single-Phase Filters ✓ QD tab and wire leads option 	<p>RP100 Series 3-10A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Single Stage Power Line Filters ✓ Current Rating: 3, 6, and 10 Amps ✓ Single-Phase Filters ✓ QD tab and wire leads option 
<p>RP105 Series 3-16A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Single Stage Power Line Filter ✓ Current Rating: 3, 6, 10, and 16 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and stud option 	<p>RP110 Series 3-20A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Single Stage Power Line Filters ✓ Current Rating: 3, 6, 10, and 20 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and stud option 	<p>RP115 Series 3-16A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Single Stage Power Line Filter ✓ Current Rating: 3, 6, 10, and 16 Amps ✓ Single-Phase Filters ✓ QD tab and wire leads option 
<p>RP120 Series 10-50A</p> <ul style="list-style-type: none"> ✓ Medium - High Performance ✓ Single Stage Power Line Filters ✓ Current Rating: 10, 16, 20, 30, 40, and 50 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and stud option 	<p>RP125 Series 30-80A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Single Stage Power Line Filters ✓ Current Rating: 30, 35, 45, 60, and 80 Amps ✓ Single-Phase Filters ✓ Wire leads, studs, and connectors option 	<p>RP130 Series 3-40A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Single Stage Power Line Filters ✓ Current Rating: 3, 6, 10, 20, 30, and 40 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads, studs, connector and option 
<p>RP135 Series 1-200A</p> <ul style="list-style-type: none"> ✓ High Performance ✓ Single Stage Power Line Filters ✓ Current Rating: 1, 3, 6, 10, 16, 20, 30, 60, 100, 150, and 200 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads, studs, and connector option 	<p>RP190 Series 1-10A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Single Stage Line Filters ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Single-Phase Filters ✓ Pins for PCB mounting 	<p>RP210 Series 3-16A</p> <ul style="list-style-type: none"> ✓ Compact Design ✓ Dual Stage Power Line Filters ✓ Current Rating: 3, 6, 10, and 16 Amps ✓ Single-Phase Filters ✓ QD tab, wire leads and studs option 

Single-Phase EMI Filter Solutions

RP2180 Series | 1-10A

- ✓ Ultra Compact
- ✓ Single Stage Line Filter
- ✓ Current Rating: 1, 3, 6, and 10 Amps
- ✓ Single-Phase Filters
- ✓ QD tabs



RP220 Series | 6-20A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 6, 10, 12, 16, and 20 Amps
- ✓ Single-Phase Filters
- ✓ QD tab, wire leads and stud option



RP225 Series | 3-20A

- ✓ High Performance
- ✓ Dual Stage Power Line Filter
- ✓ Current Rating: 3, 4, 6, 10, 12, and 20 Amps
- ✓ Single-Phase Filters
- ✓ QD tab, wire leads and stud option



RP230 Series | 3.5-40A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 3.5, 6.5, 20, 30, and 40 Amps
- ✓ Single-Phase Filters
- ✓ QD tab, wire leads, studs, and connector option



RP240 Series | 6-150A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 6, 12, 16, 25, 36, 50, 80, 100, and 150 Amps
- ✓ Single-Phase Filters
- ✓ QD tab, wire leads, studs, and connector option



RP500 Series | 10A

- ✓ EMI/Harmonics
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 10 Amps
- ✓ Single-Phase Filters
- ✓ QD tab and wire leads option



RPC1199 Series | 20-30A

- ✓ Includes ground choke
- ✓ Single Stage Power Line Filter
- ✓ Current Rating: 20 and 30 Amps
- ✓ Single-Phase Filters
- ✓ Studs



089(M) Series | 1-16A

- ✓ DIN-Rail Design
- ✓ Dual Stage Filters with MOV
- ✓ Current Rating: 1, 3, 6, 10, 12, and 16 Amps
- ✓ Single-Phase Filters
- ✓ Terminal blocks



089H(M) Series | 1-16A

- ✓ High Performance DIN-Rail Design
- ✓ Dual Stage Filters with MOV
- ✓ Current Rating: 1, 3, 6, 10, 12, and 16 Amps
- ✓ Single-Phase Filters
- ✓ Terminal blocks



Three-Phase EMI Filter Solutions

Three-Phase EMI Filters reduce electromagnetic emissions from higher power applications to provide compliance with international standards. Choose from a range of voltages — including 480VAC, 520VAC, and 600VAC — and current ratings up to 2500A.

Agency certified product lines are available in both Delta and WYE input configurations with a wide variety of filtering characteristics. Astrodyne TDI offers Three Phase power line filters, in Single, Dual, and Multi-Stage designs, as well as higher current ratings and voltages upon request.

Custom Solutions

If you can't find what you're looking for in our catalog, we also offer fully custom products for many industries and applications.

Custom solutions are designed to meet your exact specifications and provide compliance with both industry standards and international EMI regulations. Contact Astrodyne TDI for more information.

Applications of Three-Phase

- ✔ Three-Phase Inverters
- ✔ Frequency Converters
- ✔ Industrial Machine Tools
- ✔ Industrial Power Supplies & UPS
- ✔ Large Computer Servers
- ✔ MRIs and X-Ray Equipment
- ✔ Foodservice Equipment
- ✔ Heating, Cutting, & Welding Equipment
- ✔ Elevators & Escalators
- ✔ Variable Frequency Drives
- ✔ Laser Equipment
- ✔ High Current Rectifiers
- ✔ EV Chargers



Three-Phase Delta EMI Filter Solutions

General specifications: 480/520/600/690 VAC Delta configuration, ambient rating 40°C/50°C, 50/60Hz operation.
Consult individual datasheet for details and specific agency approval.

RP300 Series | 25-500A

- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 25, 50, 55, 65, 100, 150, 200, 300, and 500 Amps
- ✓ Wire leads, studs, and connector option



RP305 Series | 6-80A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 6, 10, 20, 30, 40, 60, and 80 Amps
- ✓ Wire leads, studs, and connector option



RP310 Series | 6-20A

- ✓ Ultra Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 6, 10, and 20 Amps
- ✓ QD tabs, wire leads, and studs option



RP320 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200 and 300 Amps
- ✓ Wire leads, studs, and connector option



RP325 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200 and 300 Amps
- ✓ Wire leads, studs, and connector option



RP327 Series | 7-250A

- ✓ Bookshelf Design
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 7, 16, 30, 42, 55, 75, 100, 130, 180, and 250 Amps
- ✓ Wire leads, studs, and connector option



RP328 Series | 7-180A

- ✓ Bookshelf Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 7, 16, 30, 42, 55, 75, 100, 130, and 180 Amps
- ✓ Wire leads, studs, and connector option



RP330 Series | 10-250A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 10, 16, 25, 50, 80, 100, 150, 200, and 250 Amps
- ✓ Wire leads, studs, and connector option



RP350 Series | 20-100A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 20, 40, 60, 80, and 100 Amps
- ✓ Wire leads, studs, and connector option



RP357 Series | 150-2500A

- ✓ Operates at 600V
- ✓ Multi-Stage Power Line Filters
- ✓ Current Rating: 150, 180, 250, 320, 400, 600, 800, 1000, 1600, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP359 Series | 150-2500A

- ✓ Multi-Stage Power Line Filters
- ✓ Current Rating: 150, 180, 250, 320, 400, 600, 800, 1000, 1600, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP360 Series | 20-60A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 20, 40, and 60 Amps
- ✓ Wire leads, studs, and connector option



RP370 Series | 250-1000A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 250, 320, 400, 600, 800, and 1000 Amps
- ✓ Bus bar option



RP380 Series | 15-300A

- ✓ Operates at 600V
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200, and 300 Amps
- ✓ Wire leads, studs, and connector option



Three-Phase WYE EMI Filter Solutions

General specifications: 480/520/600/690 VAC WYE configuration, ambient rating 40°C/50°C, 50/60Hz operation. Consult individual datasheet for details and specific agency approval.

RP400 Series | 15-300A

- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 15, 30, 35, 36, 40, 45, 60, 65, 100, 150, 200, 250, 300 Amps
- ✓ Wire leads, studs, and connector option



RP405 Series | 6-40A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 6, 10, 20, 30, and 40 Amps
- ✓ Wire leads, studs, and connector option



RP410 Series | 6-20A

- ✓ Ultra Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 6, 10, and 20 Amps
- ✓ QD tabs, wire leads, and studs option



RP410HP Series | 6-20A

- ✓ Ultra Compact High Performance Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 6, 10, and 20 Amps
- ✓ QD tabs, wire leads, and studs option



RP415 Series | 8-160A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- Current Rating: 8, 16, 25, 36, 64, 80, 120, and 160 Amps
- ✓ Wire leads, studs, and connector option



RP420 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200, and 300 Amps
- ✓ Wire leads, studs, and connector option



RP425 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200, and 300 Amps
- ✓ Wire leads, studs, and connector option



RP428 Series | 8-600A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 8, 16, 25, 36, 64, 80, 120, 160, 200, 300, 400, and 600 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP480 Series | 15-300A

- ✓ Operates at 600V
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200, and 300 Amps
- ✓ Wire leads, studs, and connector option



RPC1195 Series | 20-30A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 20 and 30 Amps
- ✓ Stud option



RPC1197 Series | 20-30A

- ✓ 1U Power Line Filter
- ✓ Dual Stage
- ✓ Current Rating: 20 and 30 Amps
- ✓ Stud option



DC EMI Filter Solutions

Astrodyne TDI DC EMI Filters are designed to attenuate noise on DC input and output power lines. Astrodyne TDI DC EMI Filters are available with ratings up to 1200VDC and 2500A and are designed specifically for both power supply and inverter applications.

RP190 Series | 1-10A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
Current Rating: 1, 3, 6, and 10 Amps
- ✓ Pins for PCB Mounting



RP600 Series | 15-125A

- ✓ Max Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 60, 80, 100, and 125 Amps
- ✓ Wire leads, studs, and connector option



RP600C Series | 15-125A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 60, 80, 100, and 125 Amps
- ✓ Wire leads, studs and connector option



RP605 Series | 100-200A

- ✓ High Current
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 100, 150, 180, and 200 Amps
- ✓ Wire leads, studs and connector option



RP610 Series | 3-20A

- ✓ High Performance
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 3, 6, 10, 12, and 20 Amps
- ✓ QD tabs, wire leads, and stud option



RP615 Series | 3-20A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
Current Rating: 3, 6, 10, and 20 Amps
- ✓ QD tabs, wire leads, and stud option



RP650 Series | 3-20A

- ✓ High Performance
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 3, 6, 10, 12, and 20 Amps
- ✓ QD tabs, wire leads, and studs option



RP655 Series | 3-20A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 3, 6, 10, and 20 Amps
- ✓ QD tabs, wire leads, and studs option



RP680 Series | 250-1000A

- ✓ Compact High Current Design
- ✓ Operates at 600VDC
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 250, 320, 400, 600, 800, 1000 Amps
- ✓ Bus bars option



RP690 Series | 50-500A

- ✓ High Voltage/High Current Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 50, 100, 200, 300, and 500 Amps
- ✓ Wire leads, studs and connector option



RP692 Series | 25-2500A

- ✓ High Voltage/High Current Design
- ✓ Single Stage Power Line Filter
- ✓ Current Rating: 25, 50, 75, 100, 150, 250, 400, 600, 800, 1000, 1500, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP695(X) Series | 450-1600A

- ✓ Compact High Current, High Voltage, (X) High Performance Design
- ✓ Dual Stage Power Line Filter
- ✓ Current Rating: 450, 600, 1000, 1600 Amps
Bus bar option



RPC1158 Series | 50A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 50 Amps
- ✓ Stud option



RPC1299 Series | 30A

- ✓ PCB Mount Design
- ✓ Dual Stage Line Filter
- ✓ Current Rating: 30 Amps
- ✓ Pin option



Applications of DC Filters

- ✓ Solar PV Inverters
- ✓ Telecom
- ✓ EV Chargers
- ✓ DC Decoupling
- ✓ Aerospace
- ✓ Military Ground Vehicle

IEC Inlet EMI Filter Solutions

IEC INLET EMI Filters are easy to install and provide a space-efficient solution for a wide range of electronic applications. Astrodyne TDI also offers integrated modules that include the EMI filter as well as a fuse holder (single or dual) and/or a switch.

<p>080(M) Series 1-20A</p> <ul style="list-style-type: none"> ✓ Single Stage Power Entry and Outlet Filters ✓ Compact Design ✓ Current Rating: 1, 3, 6, 8, 10, 15, and 20 Amps ✓ Low leakage option ✓ QD tabs and wire lead option 	<p>080S(M) Series 1-20A</p> <ul style="list-style-type: none"> ✓ Snap-In Single Stage IEC Inlet Filters ✓ Current Rating: 1, 3, 6, 8, 10, 15, and 20 Amps ✓ Horizontal Mounting (Left & Right) ✓ Low leakage option ✓ QD tabs and wire lead option 	<p>080SV(M) Series 1-20A</p> <ul style="list-style-type: none"> ✓ Snap-In Single Stage IEC Inlet Filters ✓ Current Rating: 1, 3, 6, 8, 10, 15, and 20 Amps ✓ Vertical Mounting (Top & Bottom) ✓ Low leakage option ✓ QD tabs and wire lead option 
<p>080SH(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Snap-In Max Performance ✓ Single Stage IEC Inlet Filters ✓ Horizontal Mounting (Left & Right) ✓ Current Rating: 1, 3, 4.5, 6, 8, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire lead option 	<p>080SVH(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Snap-In Max Performance ✓ Single Stage IEC Inlet Filters ✓ Vertical Mounting (Top & Bottom) ✓ Current Rating: 1, 3, 4.5, 6, 8, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire lead option 	<p>081(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Single Stage Compact IEC Inlet Power Entry Module with Fuse Holder ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire lead option 
<p>082(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Single Stage Compact IEC Inlet Power Entry Module with Fuse and Switch ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Low leakage option ✓ Safety fuse and DPST on/off switch ✓ QD tabs and wire leads option 	<p>082S(M) Series 1-15A</p> <ul style="list-style-type: none"> ✓ Snap-In Single Stage Power Entry Module ✓ Current Rating: 1, 3, 6, 10, and 15 Amps ✓ Low leakage option ✓ DPST Switch ✓ QD tabs and wire leads option 	<p>083(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Single Stage Compact Power Entry Module with Dual Fuse Holder ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire leads option 
<p>084(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Snap-In Single Stage Power Entry Modules with Dual Fuse Holder and Switch ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire leads option 	<p>084S(M) Series 1-15A</p> <ul style="list-style-type: none"> ✓ Single Stage Compact Power Entry Modules with Dual Fuse Holder and DPST Switch ✓ Current Rating: 1, 3, 6, 10, and 15 Amps ✓ Low leakage option ✓ QD tabs and wire leads option 	<p>085(M) Series 1-10A</p> <ul style="list-style-type: none"> ✓ Compact Single Stage Power Entry Module with SPST on/off Switch ✓ Current Rating: 1, 3, 6, and 10 Amps ✓ Low leakage option ✓ QD tabs and wire lead option 
<p>085S(M) Series 1-20A</p> <ul style="list-style-type: none"> ✓ Snap-In Single Stage Power Entry Module with Switch ✓ Current Rating: 1, 3, 6, 10, 15, and 20 Amps ✓ Low leakage option ✓ QD tabs option 	<p>RP180 Series 15-20A</p> <ul style="list-style-type: none"> ✓ High Performance Design ✓ IEC Inlet Single Stage Power Line Filter ✓ Current Rating: 15 and 20 Amps ✓ QD tabs and wire leads option 	<p>RP182CD Series 3-10A</p> <ul style="list-style-type: none"> ✓ Ultra High Performance Design ✓ Dual Stage IEC Inlet Filter ✓ Current Rating: 3, 6, and 10 Amps ✓ QD tabs and wire lead options 

IEC Inlet EMI Filter Solutions

RP182CS Series | 3-10A

- ✓ High Performance Single Stage IEC Inlet Filter
- ✓ Current Rating: 3, 6, and 10 Amps
- ✓ QD tabs and wire leads option



RP185 Series | 1-15A

- ✓ High Performance Design
- ✓ Single Stage IEC Inlet Filter
- ✓ Current Rating: 1, 3, 6, 10, and 15 Amps
- ✓ QD tabs and wire leads option



RP186 Series | 1-20A

- ✓ Ultra High Performance Design
- ✓ Single Stage IEC Inlet Filter
- ✓ Current Rating: 1, 3, 6, 10, 12, 15, 16, and 20 Amps
- ✓ QD tabs and wire leads option



RP187 Series | 1-20A

- ✓ High Performance Design
- ✓ Dual Stage IEC Inlet Filter
- ✓ Current Rating: 1, 3, 6, 10, and 20 Amps
- ✓ QD tabs and wire lead option



RP188 Series | 3-10A

- ✓ High Performance Design
- ✓ Power Entry Module Single Stage IEC Inlet Filter with Fuse and Switch
- ✓ Current Rating: 3, 6, and 10 Amps
- ✓ QD tabs option



RP188HSN Series | 3-10A

- ✓ High Performance Design
- ✓ Power Entry Module Single Stage IEC Inlet Filter with Dual Fuse and Switch
- ✓ Current Rating: 3, 6, and 10 Amps
- ✓ QD tabs option



Typical Applications of IEC Inlet EMI Filters

- ✓ Computers
- ✓ LCD TVs
- ✓ Exercise Equipment
- ✓ Test & Measuring Equipment
- ✓ Communication Equipment
- ✓ Toys
- ✓ Medical Devices
- ✓ Vent Hoods

Feed-Through EMI Filter Solutions

Feed-through EMI Filters provide high insertion loss from KHz to GHz frequencies. These filters are perfect for high-tech applications as they can provide both filtering and input/output isolation.

056 Series | 5-300A

- ✓ Feed Through Filter & Feed Through Capacitors
- ✓ High insertion loss
- ✓ Current Rating: 5, 15, 25, 60, 100, 200, and 300 Amps
- ✓ Available with mounting bushing and all types of terminals



Typical Applications for Feed-Through EMI Filters

- ✓ Mobile Shelters
- ✓ IT devices
- ✓ Shielded Enclosures
- ✓ Base Stations
- ✓ Switching Equipment
- ✓ Shielded Enclosures

Facility, MRI/Shielded Room EMI Filter Solutions

Facility and Shielded Room EMI Filters are designed to isolate the shielded environment from external noise for both functional and security purposes. These filters comply with all the applicable requirements of MIL-PRF-15733, MIL-STD-810, and UL1283.

057-1 & 057-2 Series | 10-250A



- ✓ 100dB High Performance Shielded Room Filters (@14KHz & 150KHz)
- ✓ Single, dual, three, and four line model
- ✓ Current Rating: 10, 30, 60, 100, and 250 Amps
- ✓ Easy mounting and installation

058 Series | 0.5 - 5A



- ✓ Designed for communication telephone line and control line
- ✓ Current Rating: 0.5 to 5 Amps at 50°C
- ✓ Available with or without enclosure
- ✓ Plated Steel Case and IP Class IP65
- ✓ Meets Tempest performance

059 Series | 50A



- ✓ MRI Room and Shielded Enclosure Filters
- ✓ Current Rating: up to 50 Amps at 60°C
- ✓ High attenuation (100dB) from 5MHz to 10GHz
- ✓ Sealed construction

F Series | 20 - 2500A



- ✓ Multiple design configurations including multi-line cabinet-style filter solutions and compact box-style single and dual-line filters
- ✓ 100dB @14KHz to 10GHz by MIL-STD-220
- ✓ Current Rating: 20A -2500A for cabinet style design, 20A - 400A for single line compact design, and 20A - 100A for dual line compact design
- ✓ Withstand a 40% current overload for 15 minutes without degradation

Typical Applications for Shielded Room EMI Filters

- ✓ MRI Rooms
- ✓ Shielded Rooms/Enclosures
- ✓ Test Labs
- ✓ Secure Facilities
- ✓ Data Centers
- ✓ Strategic Command Centers

Inverter EMI Filter Solutions

Inverter AC and DC EMI Filters are used for applications that have frequency inverters or inverter-based control systems. These compact filters reduce conducted emissions to help meet international EMC regulations.

RP240 Series | 6-150A

- ✓ High Performance
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 6, 12, 16, 25, 36, 50, 80, 100, and 150 Amps
- ✓ Single-Phase Filters
- ✓ QD tab, wire leads, studs, and connector option



RP320 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200 and 300 Amps
- ✓ Wire leads, studs, and connector option



RP325 Series | 15-300A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 15, 30, 50, 80, 100, 150, 200 and 300 Amps
- ✓ Wire leads, studs, and connector option



Inverter EMI Filter Solutions

RP327 Series | 7-250A

- ✓ Bookshelf Design
- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 7, 16, 30, 42, 55, 75, 100, 130, 180, and 250 Amps
- ✓ Wire leads, studs, and connector option



RP328 Series | 7-180A

- ✓ Bookshelf Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 7, 16, 30, 42, 55, 75, 100, 130, and 180 Amps
- ✓ Wire leads, studs, and connector option



RP330 Series | 10-250A

- ✓ Dual Stage Power Line Filters
- ✓ Current Rating: 10, 16, 25, 50, 80, 100, 150, 200, and 250 Amps
- ✓ Wire leads, studs, and connector option



RP357 Series | 150-2500A

- ✓ Operates at 600V
- ✓ Multi-Stage Power Line Filters
- ✓ Current Rating: 150, 180, 250, 320, 400, 600, 800, 1000, 1600, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP359 Series | 150-2500A

- ✓ Multi-Stage Power Line Filters
- ✓ Current Rating: 150, 180, 250, 320, 400, 600, 800, 1000, 1600, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



RP680 Series | 250-1000A

- ✓ Compact High Current Design
- ✓ Operates at 600VDC
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 250, 320, 400, 600, 800, 1000 Amps
- ✓ Bus bars option



RP690 Series | 50-500A

- ✓ High Voltage/High Current Design
- ✓ Single Stage Power Line Filters
- ✓ Current Rating: 50, 100, 200, 300, and 500 Amps
- ✓ Wire leads, studs and connector option



RP692 Series | 20-30A

- ✓ High Voltage/High Current Design
- ✓ Single Stage Power Line Filter
- ✓ Current Rating: 25, 50, 75, 100, 150, 250, 400, 600, 800, 1000, 1500, and 2500 Amps
- ✓ Wire leads, studs, connector and bus bar option



Applications of Inverter Filters

- ✓ Solar
- ✓ Grid-Tied
- ✓ Transformer
- ✓ DC Decoupling

PCB Mounted EMI Filter Solutions

PCB-mounted AC and DC EMI Filters can be mounted directly to circuit boards and are designed to mitigate board-level noise or alleviate challenges for chassis mount filter installation. These filters are an effective and compact low-cost solution for EMC compliance.

RP190 Series | 1-10A

- ✓ Compact Design
- ✓ Single Stage Power Line Filters
- Current Rating: 1, 3, 6, and 10 Amps
- ✓ Pins for PCB Mounting



RPC1299 Series | 30A

- ✓ PCB Mount Design
- ✓ Dual Stage Line Filter
- ✓ Current Rating: 30 Amps
- ✓ Pin option



Applications of PCB Filters

- ✓ Electronic Assemblies
- ✓ Telecom
- ✓ DC-DC Converters
- ✓ Aerospace
- ✓ Compact
- ✓ Medical Equipment

LOOKING FOR A COMPLEX POWER DESIGN?

Astrodyne TDI Develops Custom Power System Solutions

Custom Power Distribution Units (PDUs) offer effective and efficient implementation of power distribution, safety features, remote communication, output monitoring, and control. With experience in power supplies, EMI filters, and integration, we provide develop custom PDUs to support the semiconductor capital equipment market. Current capabilities range from small PDUs delivering 100's watts to large-scale Power Systems delivering 100's kilowatts. Supported power input sources include uninterruptible power supplies (UPS), power supplies (PSU), and utility power sources (AC Main), or battery power (DC); with the ability to support additional power sources available upon request.

POWER CONVERSION

Astrodyne TDI's PDUs can provide power conversion elements, such as AC-DC, DC-DC, or DC-AC converters. They may also include AC-AC transformers for isolation, step-up, step-down, and/or power conditioning.

POWER CONDITIONING

Integrate EMI filters that are specifically tailored to suppress noise generated by connected equipment, or from input power surges, such as those specified by IEC-61000.

POWER CONTROL

Astrodyne TDI's PDU can provide DC bias voltage for connected system control functions and monitoring of input and delivered power. A bias voltage may be made independent of system interlock and EMO functions. It can also facilitate system maintenance and troubleshooting with some common protocols.

POWER PROTECTION

PDUs can function as part of a system or safety interlock process, where power delivery to connected equipment is coordinated with various distributed system controls and switches.

System protection features

DC power distribution via heavy duty bus bars and cabling that interconnect module shelves

AC distribution to modules

Water cooling manifolds provide cooling liquid to each module with just one inlet and exit

AC, DC, and Coolant Distribution & Management with Hot-Swap Modules





POWER. EVERYTHING DEPENDS ON IT.

For over 60 years Astrodyne TDI has been designing and manufacturing power supply and EMI filter solutions. Our quality-oriented engineers have developed an extensive breadth of products with the most critical safety certifications, including SEMIF47, and ISO9001 for exceptional quality. Standard power supplies range from 1W and up, while EMI filter solutions range up to 2500A.

Thanks to our extensive experience as power solution providers, our large team of engineers is able to provide rapid prototypes of mod-standard designs. Our team can even design and manufacture fully custom solutions for demanding applications where packaging, connections, voltages, leakage currents, etc., must be modified, and value-added design services are required.

Partner up with the Astrodyne TDI team to bring your design to market, in record time, with international safety and EMC compliance certifications.

Developing Power Technologies & Products that People Depend Upon, to Enhance, Protect, and Save Lives.

Astrodyne**TDI**
Now you have power.