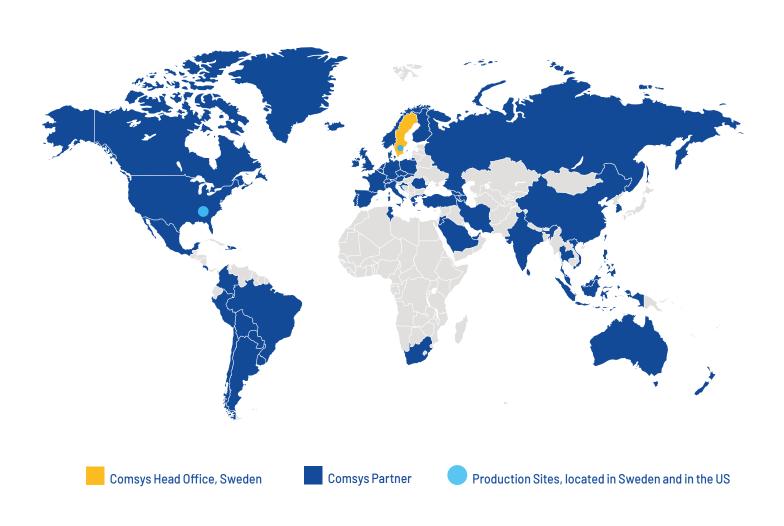




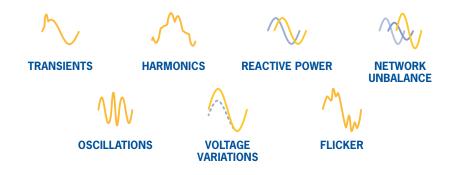
ADF technology makes energy more efficient among our 5 000 installations around the globe and has been established as THE standard within Active filtering because of its many unique features that adds value to customer sites.



MOST INDUSTRIES KIC:AI IN CRITICAL EQUIPMENT

THEIR SPEED INCREASES & DECREASES **CONTINUOUSLY**

THIS CREATES DISTURBANCES



Causing a variety of

OVERHEATING TRANSFORMERS

SHORTER EQUIPMENT LIFE

NUISANCE TRIPPING IN CIRCUIT BREAKERS **PRODUCTION** FAILURE/DOWNTIME

NON-COMPLIANCE

EXCEEDING NORM LIMITS

Low harmonic drive technology

If you have a number of drives
(also referred to as variable-speed
motor drives) on site, you are
generating electrical disturbances.

LHD = standard 6-pulse drive + filter technology

These disturbances include network unbalance, flicker, and especially harmonics—not to mention the risk of regulatory non-compliance. Those working in the marine, offshore, and water treatment industries are especially vulnerable to these problems.

For decades the common filter solution has been passive filter, but there's a modern solution that offers an improved competitive advantage. With active filter technology, you get a more compact solution that enables fewer losses and less total harmonic distortion (THD).

ADF is the most flexible system available to help you achieve an LHD. And there's no comparison when it comes to price: ADF can save you up to 40%* in total cost of ownership compared to AFE. It's a versatile yet powerful solution that takes the hassle out of installation and operation.

^{*} based on internal calculation

USE OUR COMPONENTS TO YOUR ADVANTAGE

Because ADF components can be combined with a drive to create the ultimate low harmonic solution, it's ideal for system integrators or OEMs (original equipment manufacturers). We can give you the components you need to succeed in any application.

Read on to learn what makes ADF technology the smart choice for your operation.



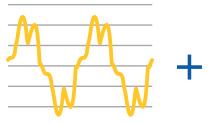
Technology that makes energy more efficient

Engineered in Sweden, ADF provides a unique way of reducing energy losses in a vast range of applications such as industrial production

It works by sensing electrical behavior, then reduces energy losses by correcting the electrical behavior. This is achieved by using state-of-the-art signal processing and advanced control structures to manage the power flow to and from the machine with a power processor (power converter). By continuously monitoring the network and injecting exactly the right amount of compensation current—at exactly the right time—the most efficient and accurate solution to any power quality problem can be achieved.

Engineered and manufactured in **SWEDEN**

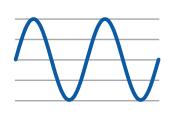
LOAD CURRENT



ADF COMPENSATION CURRENT



LINE CURRENT



ADF vs. Competitor

Compared to other power quality technologies, ADF provides a solution that is hard to beat. It is an efficient system that leads to low losses, but more than that, it provides a reliable tool box that can seamlessly address a variety of disturbances, from THD to flicker.

And while most power quality products can help you meet regulations in some sense, we do that with a lighter, more compact solution. The modular structure of ADF also allows for flexibility for the future and adaptability for your specific project.

	ADF	MULTIPULSE	AFE	PASSIVE FILTER
Losses	•	•	•	•
Total harmonic distortion	•	•	•	•
Physical size	•	•	•	•
			• LOW	● MEDIUM ● HIGH
	ADF	MULTIPULSE	AFE	PASSIVE FILTER
	ADF	WOLITI OLSE	ALL	PASSIVE FILIER
Meets regulation *	•	NOLIN OLSE	•	O O
Meets regulation * Specified harmonic selection	•		•	
	•	•	•	0
Specified harmonic selection	• • • • • • • • • • • • • • • • • • •	•	•	0

Although other solutions will meet some of your needs, you can rely on ADF to meet all of them.

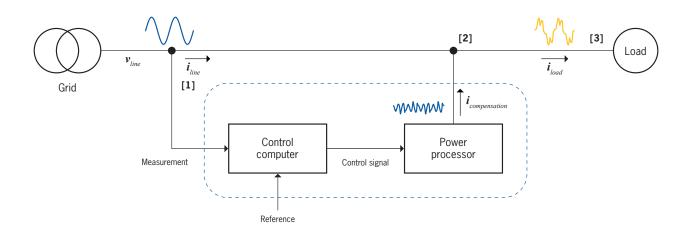
What to expect with ADF

An ADF unit is basically a very advanced computer-controlled current generator with the ability to instantly produce any shape or form of compensation current.

A simplified diagram of the operating principle is shown in the figure below. Each ADF unit is connected in parallel, in shunt, with the load that requires compensation. The power flows of electrical currents between the load and the network are measured and analyzed [1] to determine if disturbances such as reactive displacement and/or harmonics are present.

If found, the ADF unit injects compensation current [2] that are the exact opposite of, for example, the harmonics and/or reactive displacement. This is done in order to cancel out the load behavior [3].

The result is an ideal load with a minimum of power losses and disturbances. The energy profile then appears ideal to the transformer.



ADF TECHNOLOGY HELPS YOU SAVE:

SPACE

Since one module supports multiple drives, you can save space and ensure flexibility for the future.

MONFY

Increase energy efficiency while reducing the expense of replacing worn equipment.

Avoid unnecessary downtime for maintenance or replacement of equipment affected by power quality issues.



HASSLE

ADF-type technology is already being included in regulatory demands and equipment warranties - a trend that will only continue to grow.

















SECURING REGULATORY COMPLIANCE

When it comes to regulatory compliance, you need a solution you can depend on. But more than that, why not consider a solution that leaves room for growth? With ADF, you can remain care-free in the knowledge that this low harmonic solution will ensure you meet necessary standards.

See some examples here on the left.

MAINTAIN YOUR EQUIPMENT WARRANTIES

With increasingly sensitive equipment, come stricter technical infrastructure demands and increasing electrical disturbances. Avoid this concern over loss of warranties with a stable and reliable power quality solution.

EXTEND YOUR EQUIPMENT LIFETIME

A reliable power quality solution ensures that unstable power is compensated. With ADF, you lower the risk for wear, expensive shutdowns, and replacement.

The ADF range



The ADF P25 active filter gives you everything in a compact format. Although compact and cost-effective, the ADF P25 features the same excellent cutting-edge performance as its bigger family members.

[30 A]

Like its bigger brothers, the ADF P25 is ultra-efficient and easy to use. The compact design allows the ADF P25 to be used in applications where space is at a premium. The ADF P25 has a nominal compensation current of 30 A (three wire, 480 V).

The ADF P25 can be commissioned using the Web User Interface (WUI) called ADF Dashboard. No special software needs to be installed on the laptop to perform commissioning.

- Drive systems
- · Pump applications
- Offices and commercial buildings
- Medical equipment

- Industrial loads
- UPS systems
- Fans



MODEL	ADF P25-30/480				
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	30 A _{rms}				
NOMINAL VOLTAGE	208 – 480 V				
NUMBER OF PHASES	3 phase 3 wire				
HARMONIC COMPENSATION	Individual compensation up to 49th order				
POWER DISSIPATION	< 1000 W				
MAXIMUM AIR FLOW	< 400 m³/h				
NOISE LEVEL	< 70 dB(A)				
ENVIRONMENT	0 to 95% RH non-condensing, max. altitude 1000 m without derating				
DIMENSIONS (W×H×D)	227 × 810 × 326 mm				
	8.9 x 31.8 x 12.8 inch				
WEIGHT	38 kg / 84 lbs				
PROTECTION CLASS	IP20, IP21 according to IEC 60529, other ratings upon request				

ADF P100 active filters give you the compensation capabilities you need in a compact cabinet. It's small and cost-effective, but the ADF P100 features the cutting-edge performance you can expect with ADF.

[50-150 A]

The ADF P100 is ultra-efficient and easy to use. The wall-mounted cabinet is a cost-effective package that allows the use of ADF technology in applications where saving space and weight are optimal. Several ADF P100 units can be used in parallel, and the ADF P100 can also be used in Sensorless operation for harmonics compensation. The ADF P100 is available in three-wire versions (50–150 A) and in a four-wire version – the ADF P100N (100 A, 300 A Neutral).

- · Maritime vessels
- Offshore oil rigs
- Drive systems
- Data centers

- Pump applications
- Medical equipment
- Industrial loads
- UPS systems



MODEL	ADF P100-	ADF P100-	ADF P100-	ADF P100-	ADF P100-	ADF P100-	ADF P100N-
	50/480	75/480	90/480	120/480	150/480	90/690	100/415
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	50 A _{rms}	75 A _{rms}	90 A _{rms}	120 A _{rms}	150 A _{rms}	90 A _{rms}	100 A _{rms}
NOMINAL VOLTAGE		480 V (208 - 480 V) 690 V (480 - 690 V)					
NUMBER OF PHASES			3 phase	e 3 wire			3 phase 4 wire
HARMONIC COMPENSATION			Individual c	ompensation up to	49th order		
HEAT DISSIPATION	< 1600 W	< 2535 W	< 3180 W	< 3155 W	< 3225 W	< 2969 W	< 2235 W
MAXIMUM AIR FLOW			<	600 m³/h / 353 CF	М		
NOISE LEVEL				< 70 dB(A)			
ENVIRONMENT		0 to 95% RH	I non-condensing,	max. altitude 100	0 m / 3281 ft. with	out derating	
DIMENSIONS		230 × 1790 × 470 mm					
(W×H×D)		9 x 25.4 x 18.5 inch					
WEIGHT		91 kg		105 kg	116 kg	150) kg
		201 lbs		231 lbs	256 lbs	331	lbs
PROTECTION CLASS	IP20, IP21 according to IEC 60529, other ratings upon request						



The ADF P200 is the powerhouse you need when all else fails. It reads faster and corrects faster than other solutions, but its true specialty is eliminating resonances and mitigating interharmonics where other solutions simply can't.

[120 A]

The ADF P200 is a compact, wall-mounted product and is highly specialized and compatible with all three-phase low-voltage applications. The ADF P200 can be installed into the ADF P300 as well as be deployed in system integration projects. It is ideal for eliminating resonances both in current control and Sensorless operation, as well as for mitigating interharmonics.

- Offices and commercial buildings
- Small- and medium-sized manufacturing companies
- Fluorescent lamps
- · Medical equipment

- Industrial loads
- UPS systems
- Fans
- Drive systems
- HVAC

MODEL	ADF P200-120/480
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	120 A _{rms}
NOMINAL VOLTAGE	208 - 480 V
NUMBER OF PHASES	3 phase 3 wire
HARMONIC COMPENSATION	Curve selectable harmonics, interharmonic compensation up to 5 kHz (100 th order)
POWER DISSIPATION	< 1200 W
MAXIMUM AIR FLOW	< 600 m³/h
NOISE LEVEL	<70 dB(A)
ENVIRONMENT	0 to 95% RH non-condensing, max. altitude 1000 m without derating
DIMENSIONS (W × H × D)	230 × 1400 × 470 mm
	9 x 25.4 x 18.5 inch
WEIGHT	90 kg / 198 lbs
PROTECTION CLASS	Standard IP20 according to IEC 60529, optional IP21, other ratings upon request

The ADF P300 is the ideal active filter for small and medium size commercial and industrial loads. It is a versatile solution and the best choice for most applications because it is such a flexible active filter.

[90-450 A]

With the ADF P300, the state-of-the-art performance of our active filter technology comes encased in a compact cabinet, although larger than the ADF P100. Each ADF P300 system is delivered with 90-360 A optimization power and the modular design makes it easy and convenient to add future upgrades. The modularity also ensures superior scalability—up to 15 units can be used in parallel.

The ADF P300 is compatible with all three-phase low voltage applications. Beyond harmonics and reactive compensation, the ADF P300 can also be used for flicker control, harmonics with Sensorless operation, and load balancing. The ADF P300 can also be tailored to unique applications requiring special optimization.

- MarOffices and commercial buildings
- Small and medium sized manufacturing companies
- Fluorescent lamps
- Medical equipment
- Industrial loads

- UPS systems
- Fans
- Drive systems
- Maritime vessels
- Offshore oil rigs
- HVAC



TECHNICAL SPECIFICATION ADF P300

MODEL	ADF P300-120/480 ADF P300-90/690	ADF P300-150/480	ADF P300-240/480 ADF P300-180/690	ADF P300-300/480	ADF P300-360/480 ADF P300-270/690
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	120 A _{rms} 90 A _{rms}	150 A _{rms}	240 A _{rms} 180 A _{rms}	300 A _{rms}	360 A _{rms} 270 A _{rms}
NOMINAL VOLTAGE			208-690 V		
NUMBER OF PHASES			3 phase 3 wire		
CONNECTION TYPE		3 pha	se without neutral (TN, 1	т, іт)	
HARMONIC COMPENSATION		Individu	al compensation up to 49	th order	
HEAT DISSIPATION	< 2725 W < 2969 W	< 3225 W	< 5323 W < 5813 W	< 6250 W	< 7925 W < 8657 W
MAXIMUM AIR FLOW	< 600 m³/h / 353 CFM		< 1200 m³/h / 706 CFM		< 1800 m³/h 1056 CFM
NOISE LEVEL			< 70 dB(A)		
ENVIRONMENT	0 t	to 95% RH non-condens	ing, max. altitude 1000 m	/ 3281 ft. without derati	ng
DIMENSIONS	405 × 2168	× 636 mm	605 × 2168	805 × 2168 × 636 mm	
(W×H×D)	15.9 x 85.4	x 25 inch	23.8 x 85.4 x 25 inch		31.7 x 85.4 x 25 inch
WEIGHT	335 kg /	739 lbs	463 kg / 1021 lbs		609 kg / 1343 lbs
	351 kg /	774 lbs	495 kg / 1092 lbs 639 kg / 1409 lbs		
PROTECTION CLASS	IP22 according to IEC 60529, optional IP43, other ratings upon request				

MODEL	ADF P300-110/480-UL ADF P300-90/600-UL	ADF P300-220/480-UL ADF P300-180/600-UL	ADF P300-330/480-UL ADF P300-270/600-UL
COMPENSATION CURRENT	110 A _{RMS}	220 A _{RMS}	330 A _{rms}
CAPACITY AT 50/60 HZ	90 A _{rms}	180 A _{rms}	270 A _{RMS}
NOMINAL VOLTAGE		480 V (208 - 480 V), 600 V (480 - 600 V)	
NUMBER OF PHASES		3 phase 3 wire	
HARMONIC COMPENSATION		Individual compensation up to 49 th order	г
POWER DISSIPATION	< 2480 W	< 4835 W	< 7190 W
	< 2836 W	< 5547 W	< 8258 W
MAXIMUM AIR FLOW	< 600 m ³ /h / 353 CFM	< 1200 m ³ /h	< 1800 m³/h / 1056 CFM
NOISE LEVEL		< 70 dB(A)	
ENVIRONMENT	0 to 95% RH n	on-condensing, max. altitude 1000 m wit	hout derating
DIMENSIONS (W×H×D)	405 × 2168 × 636 mm	605 × 2168 × 636 mm	805 × 2168 × 636 mm
	15.9 x 85.4 x 25 inch	23.8 x 85.4 x 25 inch	31.7 x 85.4 x 25 inch
WEIGHT	335 kg / 739 lbs	472 kg / 1041 lbs	609 kg / 1343 lbs
	351 kg / 774 lbs	495 kg / 1092 lbs	639 kg / 1409 lbs
PROTECTION CLASS		Nema 1	

PPM300

The ADF PPM300 inverter module is one of the key components of the ADF System Integration Program. Designed for easy integration into electrical cabinets and motor control centers, this component enables you to build your own active harmonic filter or low harmonic solution.

[50-150 A]

Join our System Integration program when you need to develop a custom solution – either as a System Integrator or OEM. The flexible building blocks allow you to integrate the ADF technology into your application in the most flexible way.

Building on a history of successful installations, the ADF PPM300 tolerates high levels of frequency disturbances and continues to compensate reliably in applications where passive filters are likely to break down. ADF PPM300 is available with air- or liquid-cooling.

The ADF "building blocks" can be used to build harmonic compensation solutions, from small to large. From a single PPM system with a single control unit, up to a 90-unit PPM system with 15 control units.

- Custom low harmonic drive systems
- Custom cabinets
- Liquid cooling applications
- Marine Applications
- Machine builders

- Utilities
- STATCOM
- 0EM



TECHNICAL SPECIFICATION PPM300

MODEL	PPM300v2B- 3-A-50/480	PPM300v2B- 3-A-75/480	PPM300v2B- 3-A-90/480	PPM300v2B- 3-A-120/480	PPM300v2B- 3-A-150/480		
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	50 A _{rms}	75 A _{rms}	90 A _{rms}	120 A _{rms}	150 A _{rms}		
NOMINAL VOLTAGE			480 V (208 – 480 V)		^		
NUMBER OF PHASES			3 phase 3 wire				
HARMONIC COMPENSATION		individu	al compensation up to 49	th order			
EXPANDABILITY		Up to 3 modules can be controlled by one SCC2-P3 Up to 6 modules can be controlled by one SCC2-P6 Cluster of up to 15 SCC2 units can work in parallel for up to 90 PPM modules					
POWER DISSIPATION	< 1475 W	< 2410 W	< 3055 W	< 3030 W	< 3100 W		
MAXIMUM MEDIA FLOW			< 600 m ³ /h				
NOISELEVEL			< 70 dB(A)				
ENVIRONMENT		0 to 95% RH non-condensing, max. altitude 1000 m without derating					
DIMENSIONS (W×H×D)			227 × 1443 × 471 mm				
			8.9 x 56.8 x 18.5 inch				
WEIGHT		79 kg / 174 lbs		93 kg /	205 lbs		
PROTECTION CLASS	IP20 according to IEC 60529						

MODEL	PPM300v2-3-A-110/480-UL	PPM300v2-3-A-90/600 PPM300v2-3-A-90/690-UL	PPM300v2B-3-W-140/690			
COMPENSATION CURRENT						
CAPACITY AT 50/60 HZ	110 A _{RMS}	90 A _{rms}	140 A _{RMS}			
NOMINAL VOLTAGE	480 V (280 – 480 V)	690 V (48	0-690 V)			
NUMBER OF PHASES		3 phase 3 wire				
HARMONIC COMPENSATION	i	individual compensation up to 49th orde	-			
	Uţ	o to 3 modules can be controlled by one SCC2-l	23			
EXPANDABILITY	Սյ	to 6 modules can be controlled by one SCC2-l	26			
	Cluster of up t	o 15 SCC2 units can work in parallel for up to 90	PPM modules			
POWER DISSIPATION	< 2725 W	< 2725 W < 2969 W < 3				
MAXIMUM MEDIA FLOW	< 600	l m³/h	$\Delta P = 60 \text{ kPa at } 10 \text{ I/min}$			
COOLING MEDIA	А	ir	Liquid			
NOISELEVEL		< 70 dB(A)				
ENVIRONMENT	0 to 95% RH n	on-condensing, max. altitude 1000 m wit	hout derating			
DIMENSIONS (W×H×D)		230 × 1400 × 470 mm				
		9 x 55 x 18.5 inch				
WEIGHT	133 kg / 293 lbs	138 kg /	304 lbs			
PROTECTION CLASS		IP20 according to IEC 60529				

STATCOM systems in electricity networks



ADF STATCOM installation at the Fortum wind farm in Kville, Sweden.

The ADF P700 STATCOM is a high power, utility grade, medium voltage STATCOM for heavy industrial loads. It is ideal for dynamic reactive compensation, flicker mitigation, and harmonic suppression in applications such as electric arc furnaces (EAFs), cranes, hoists and wind farms. In industries with such a high power demand, there is a concurrent need for a powerful power quality solution. That's when you need the STATCOM. ADF P700 STATCOMs can be integrated into existing on-site structures or can be commissioned with their own housing.



ADF product comparison

Our products solve a variety of problems and are suitable for a range of industries. Explore this comparison chart and see which product might be right for your operation.

KEY FEATURE	ADF P25	ADF P100	ADF P200	ADF P300	PPM300	ADF P700 STATCOM
Compact, wall mounted	•	•	•		•	
Harmonics Compensation	•	•	•	•	•	•
Reactive power compensation	•	•	•	•	•	•
Eliminates resonances			•			
Interharmonics compensation			•			
Flicker compensation	•	•		•	•	•
Load balancing	•	•		•	•	•
Medium voltage applications				•	•	•
Available with liquid cooling					•	•
Four-wire version		•				
Voltage range	208-480 V	208-480 V	208-480 V	208-690 V	208-690 V	Up to 136 kV
Industrial	•	•	•	•	•	•
Commercial	•	•	•	•	•	
Utility			•	•	•	•
Marine, offshore	•	•		•	•	
Sensor-less control	•	•	•	•	•	•

Added features to boost your performance



Members of the ADF Partner Network during the 2019 ADF Partner Conference in Turkey

Global service network and support

With the ADF Partner Network, you get access to our global service network. Regionally, ADF partners manage commissioning, service, and local support, but these local teams are backed by our centralized support team for more advanced cases.

MAINTENANCE AROUND THE WORLD

In addition to our commissioning service, we also provide service contracts and product maintenance around the world. But we can also use the remote operation capabilities as part of our WUI to conduct quick initial assessments off-site.

Whether you are a customer or a partner within our network, to help you get the most out of ADF products, we also provide hands-on training as part of a program called ADF Academy. No matter where you are in the world, which application you are working with, or where you are in your implementation, we offer these courses to enable you and your team to gain confidence and expertise.



The only solution with Sensorless Control

When you need a retrofit solution or you have a complicated set-up, it can be very difficult to add the CTs (current transformers). But with Sensorless Control, we can compensate without it — so you can eliminate the CTs altogether. This gives you more flexibility when it comes to where and how to install the ADF unit and reduces the overall hassle of installation and compensation. In addition to this, you are also able to isolate sub-grids and compensate background distortion, which further improves the flexibility and adaptability of the ADF platform.

Sensorless Control is now available on all ADF products.

Remote operation works for you

The WUI is a web application requiring no additional software installation. It offers a convenient, easy-to-use service to enable you to monitor your ADF modules from any device-anywhere, anytime. Additionally, the WUI can be integrated into a larger system (i.e. with multiple generators, many loads, etc.), which you can then choose to run on a certain schedule or operation mode. And if your operation uses a PLC, the PLC can read out critical data from the ADF module automatically.

The WUI also allows us to make commissioning faster and easier for you by allowing our team to support you via remote operation. And further down the line, if your system needs fine tuning or a support issue occurs, we have a simple way of being able to access the system and evaluate the situation.



System integration

The ADF system integration program is a unique concept to customize and integrate ADF components, or what we can refer to as building blocks, in your projects and products.



Our "building blocks" include the PPM 300 inverter module, the SCC2 control computer, and other internal components that enable you to get a complex, functioning, and integrated system quickly. For those who want to utilize existing manufacturing resources, system integration is the smart choice for you.



With system integration, your up-front cost is reduced by utilizing our small set of standardized building blocks – making it the most cost-efficient way of integrating ADF into your operation. Additionally, the modularity and flexibility of these building blocks offer unprecedented flexibility and adaptability to any application, from renewable energy production to data centers. This in turn allows you to solve a wide range of problems with a minimal tool set.

With system integration, you can leverage the capabilities built into our standard products by using our building blocks (components).

HOW CUSTOMIZABLE IS IT?

- Compensation power ranges from about 30 A to in excess of 10,000 A
- Can be controlled via regular HMI-3 devices (basic or extended),
 via web user interface (WUI), or remote controlled via field bus
- Availability in both voltage ranges (< 480 V and 480 690 V)
- Available as air-cooled or liquid-cooled

With system integration, you get a power quality solution perfectly adapted to you. Add reduced maintenance costs due to small set of components, and you get a highly efficient, highly flexible solution.

KEY APPLICATION AREAS

- MCCs (motor control centers)
- Offshore/oil & gas
- Water treatment
- Data centers
- Marine
- Renewable energy
- HVAC

WITH SYSTEM INTEGRATION, YOU GET:

- A more compact solution than standalone products
- Leading ADF technology integrated into your existing products
- Fast and simple commissioning with the ADF WUI Dashboard
- Access to the ADF System Integration Program training with ADF Academy

Customer cases from around the world

ADF have been integrated into diverse applications around the world. From data centers in Korea to oil rigs in the Mexican Gulf, see how ADF enhances our customers operations.





Marine projects are always demanding due to strict environmental requirements along with complex power grids. Add a highly sophisticated war ship and you have challenge. Running for sereral years with traditional static harmonics compensation, one RDN ship began experiencing high harmonics created by the on-board variable frequency drives. ADF with Sensorless Control was retrofitted on board and successfully commissioned during a short trip off the Dutch coast. Due to our extensive experience in the industry and the cost and space-effiency of ADF, we have become a key supplier of active filters to the marine industry.



water & wastewater treatment Affinity







As pumping stations were upgraded with modernized motor controlling, the plant's demands on power quality increased. Affinity also had a need to meet the G5/4 UK harmonic standard. The ADF system integration concept came in handy, enabling retrofitting on all sites into the existing infrastructure, minimizing downtime and cost.

Struggling with harmonics from welding, robotics, and transportation, the BMW plant needed a powerful solution. Taking care of standard harmonic issues, we have also supported with high frequency challenges as well as resonances—applications unique to ADF.

"A key part of our decision was the superior efficiency of the active harmonic filters compared to the alternative, active front end drives."

For the full stories and more customer cases, visit COMSYS.SE



Sandvik Mining & Rock Technology



The Sandvik operation is dynamic, with high energy demands, requiring an equally dynamic and capable low harmonic solution. While overall Sandvik has experienced improved power quality and productivity, the real showpiece is the enhanced performance of the arc furnace, the power of which increased significantly together with reduced wear and tear.

BERTIL LARSSON, MAINTENANCE MANAGER

"Since our relationship with Comsys started it has evolved over the years and we see them as a long-term strategic partner for power quality. To have a stable, reliable product like ADF is one important factor, the other is the competence and know-how that exists within Comsys and its extensive partner network."



Building one of the worlds most advanced X-ray-based research facilities put high requirements on the quality of the supplied power. Early in the project, Comsys was involved as consultants to help design the part of the grid controlling the power quality. Due to tough requirements and an extremely dynamic load, there was only one solution and very few possible suppliers. With this successful installation we have been awarded several other projects on similar sites as well as hospitals, globally.







LS Industrial Systems is a Korean powerhouse supplying the industry for more than 40 years. One division under LSIS builds data centers and is today the number one engineering, procurement, and construction company in Korea for new builds. LSIS has implemented several hundred ADF units in several data center projects, ranging from banks

to cloud storage facilities. The outstanding performance and extreme user-friendliness, together with low electrical emissions, are the key factors behind choosing ADF technology for this demanding application involving highly sensitive equipment.



Live Fish Carrier

Fitjar Mekaniske Verkstad AS (FMVAS) wanted a proven power quality solution for the Live fish carrier "Seihav", that would help them meet the DNV GL requirement for a THDU limit of 8% and an individual harmonic limit of 5%. With ADF technology, we made sure that FMVAS met the requirements and at the same time we ensured efficient use of the limited space onboard.



ADF Technology is developed by Comsys AB in Lund, Sweden. Working with our global network of partners, the ADF Partner Network provides active filter solutions for a wide range of applications, enabling businesses to increase productivity, and simultaneously save money while reducing their carbon footprint.

Due to the flexibility and adaptability of this low harmonic solution, ADF products are ideal for a wide variety of industries.

www.comsys.se

-COMSYS-