



Pioneer and Leader of Power Quality Solutions

- Active Harmonic Filter
- Static Var Generator

YT Electric Co., Ltd.

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Introduction & Application

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Company Overview

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YT Electric Co., Ltd.

ABOUT US Welcome to YTElectric

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Shanghai Yingtong Electric Co., Ltd. backed by the listed company CSG and a German firm, is a national high-tech enterprise. With a 15-year history, Yingtong Electric is dedicated to its customer-centric vision of becoming a top provider of integrated electrical system solutions and services.







200+ Employees Extensive Elite Workforce

30% R&D Robust R&D Department

50+ Countries Trusted by Partners Wordwide





Company Development



Let's Take a Journey Through Time













PCBA (Printed Circuit board assembly) workshop

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SMT (Surface mount technology)workshop

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PCBA triple protected UV coating process

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PCBA board testing equipment

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Cabinet assembly & Production Line

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Main Problems & Equipment

Power Factor correction

Three-phase load imbalance

filter out harmonics

Active Harmonic Filter YTPQC - AHF

YT Electric Co., Ltd.

YTPQC-AHF Active Harmonic Filter

Rack Mounted Module

The YT-AHF Active Harmonic Filter is a perfect and comprehensive solution for addressing power quality issues in the grid, such as harmonics, reactive power, and three-phase load imbalance. The YT-AHF, connected in parallel to the grid, can promptly detect harmonics in the grid, generate a counteracting compensation current through the converter, and dynamically filter out the harmonics.

The operation of the AHF is unaffected by various load types and grid structures. It does not produce harmonic oscillations within the system, thereby achieving perfect harmonic control under different loads. The AHF can fully achieve dynamic reactive power compensation, control capacitor switching, and ultimately improve the power factor of the grid. Additionally, the YT-AHF has the function of controlling three-phase load current imbalance, thus comprehensively addressing various power quality issues in the grid.

Free-Landing Cabinet

Technical **Parameters**

AHF Module

Model	Wiring Form	Voltage Level(V)	Capacity (A)	Installation Size W*D*H (mm)
YTPQC-AHF-15-4-4L	3P3W 3P4W		15	360x390x125
YTPQC-AHF-25-4-4L			25	470x492x137
YTPQC-AHF-50-4-4L			50	480x530x200
YTPQC-AHF-75-4-4L		400	75	480x530x200
YTPQC-AHF-100-4-4L			100	480x530x200
YTPQC-AHF-150-4-4L			150	680x530x200
YTPQC-AHF-200-4-4L			200	680x530x200

Free Landing AHF Cabinet

Model	Wiring Form	Voltage Level(V)	Capacity (A)	Installation Size W*D*H (mm)
YTPQC-AHF-150-4-4L	3P3W	400V	150	800x800x2200
YTPQC-AHF-XXX-4-4L	3P4W	400V	ххх	800x800x2200
YTPQC-AHF-750-4-4L		400V	750	800x800x2200

Note:

1. The cabinet capacity can be any combination between 50A ~ 750A, and the larger

capacity cabinet can be customized.

-800x800x2200mm (W * D * H) cabinet, the maximum capacity: 600A.

-1000x1000x2200mm (W * D * H) cabinet, maximum capacity: 750A.

2. Cabinet protection level: IP30 (IP40 can be customized).

3. The cabinet contains all the components in the cabinet, such as APF modules, YT-LCD LCD controllers, circuit breakers, etc., but does not include branch bus bars, through bus bars, N rows, etc. connected to the external power grid.

4. External sampling CT is generally provided by the customer on site and can be ordered separately.

The parallel current type AHF is commonly used

AHF Working Principle

Main Types

Parallel type: current sourced current harmonicsSeries type: voltage sourced voltage harmonicsHybrid: comprehensive UPQC management

Active Harmonic Filter

Optimal Power Quality Control

- Continuous power factor correction
- Capacitive & inductive reactive power compensation
- Accurate PF maintenance -1.0 ≤ CosΦ ≤ 1.0
- Three-phase load unbalance less than 5%
- Reduction of neutral current

Leading Edge Technology

- · Three-level topology
- Ultra-compact modular design
- + Fastest switching frequency 25.6kHz
- Lowest Power Consumption ≤ 2%
- Leading Thermal Dissipation Technology

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O Harmonic Filter

- Adaptive Algorithm (ADALINE)
- THDi less than 5% at rated loads
- Up to 98% filtration efficiency
 Full response time less than Sms
- On-demand or fully compensated

Rated Voltage	2204	400V	480V	690V
kanka kunadis	(17%-269V)	(300-456%)	(356-515V)	(483-793V)
Rated Capacity	15/25/58/75/100/1584	15/23/30/50/15/100/125/1504/2004	50/75/100/120/1508	50/100/125/1997
Phase System	3P3W/3P4W			
Mains Decadence	50/60Hz ± 5%			
Circuit Topology	Three-level			
Multiple Compensation Modes	Harmonic, reaction	ve power, three-phase load im	balance compensa	tion
Filter Range	2 to 51 odd harm	anics (by order or full compeni	Lation)	
Harmonic Filtering Rate	≥98%			
Filtering Performance	Typically, THDis 1	5% at rated loads		
Three-Phase Load Balancing Effect	\leq 5% to mitigate	negative and zero sequence cu	rrents	
Neutral Linear Filtering Capability	3 times the rated	filter current (in case of 4-wire	equipment)	
Initial Response Time	s50us			
Output Current Limit	Automatic output	t limitation within 100% of rate	d capacity	
Control Algorithm	Intelligent FFT, A	DALINE, Fast Fourierand Instan	taneous Reactive P	ower Algorithn
Controller	DSP+FPGA			
Protection	Hardware protec	tion, software protection		
Control Connections	Electrical Connec	tions		
Human Machine Interface	4.3° / 7° / 10° To	ach TFT LCD HMI		
Naise	<60db (<45db at	low speed operation)		
Installation Method	Module embedde	ed (rack), wall-mounted, floor-	mounted	
Protection Level	IP30 maximum			
Cooling Method	Speed controlled	Intelligent air-cooled PWM fan	E.	
Colour	RAL 7835 Industr	ial Grey/Black		
Ambient Temperature	-20-55°C			
Relative Humidity	95% max, no con	densation		
Installation Height	Rated capacity a	t altitude s2000m, appropriate	load shedding at a	ltitude >2000n
Qualification	CE, IEEE61000, T)	ge test report, 1509001:2015		
Conformity Standard	IEEE 519, ERGS/4			
Communication Protocol	Adopts Modbus F way R5485 and C	TU remote communication pro AN bus, support mobile phone	tocol and TEP/IP p APP operation, su	ratocol: Two aport Ethernet

- Arien

Static Var Generator YTPQC - SVG

YT Electric Co., Ltd.

Static Var Generator

1 YT-SVG-400V-Module

10/ 15/ 30/ 50/ 75/ 100/ 150 Kvar

Free standing Mounted

YT-SVG-400V-Free Landing Cabinet

 Dimension:
 800x800x2200mm (W*D*H)
 Maximum Capacity: 500kVAr

 Dimension:
 1000x1000x2000mm (W*D*H)
 Maximum Capacity: 600kVAr

YT-CSVG Hybrid Reactive Power Generator Solution

Technical Parameters

SVG Module

Model	Wiring Form	Voltage Level(V)	Capacity (kVAr)	Size W*D*H (mm)
YTPQC-SVG-10-4-4L		W 400	10	360x390x125
YTPQC-SVG-15-4-4L			15	470x492x137
YTPQC-SVG-30-4-4L			30	480x530x200
YTPQC-SVG-50-4-4L	3P3W 3P4W		50	480x530x200
YTPQC-SVG-75-4-4L			75	480x530x200
YTPQC-SVG-100-4-4L			100	680x530x200
YTPQC-SVG-150-4-4L			150	680x530x200

Free Landing SVG Cabinet

Model	Wiring Form	Voltage Level(V)	Capacity (kVA)	Size W*D*H (mm)
YTPQC-SVG-200-4-4L			200	800x800x2200
YTPQC-SVG-XXX-4-4L	3P3W 3P4W	400V	ххх	800x800x2200
YTPQC-SVG-400-4-4L			400	800x800x2200

Note:

1. The cabinet capacity can be any combination between 50kVAr ~ 500kVAr, and the larger capacity cabinet can be customized.

-800x800x2200mm (W * D * H) cabinet, the maximum capacity: 500kVAr.

-1000x1000x2200mm (W * D * H) cabinet, maximum capacity: 600kVAr.

2. Cabinet protection level: IP30 (IP40 can be customized).

3. The cabinet contains all the components in the cabinet, such as SVG modules, YT-LCD LCD controllers, circuit breakers, etc., but does not include branch bus bars, through bus bars, N rows, etc. connected to the external power grid.

4. External sampling CT is generally provided by the customer on site and can be ordered separately.

SVG Working Principle Three Operation Modes

Based on the principle of a voltage source inverter, the YT-SVG uses IGBT (insulated gate bipolar transistors) to control the magnitude and phase of the inverter AC voltage, thus achieving the purpose of reactive power and harmonic compensation. Due to the very high switching frequency of the IGBT (up to dozens of kHz), the SVG can compensate for rapidly changing reactive loads and achieve very high compensation accuracy. SVG is the best solution in the field of reactive power control.

Static Var Generator

Optimal Power Factor Correction

- Continuous power factor correction
- Accurate PF maintenance $-1.0 \le Cos \Phi \le 1.0$
- · Capacitive and inductive control
- No overcompensation or undercompensation
- Mixed power factor correction

Quality Assurance

- TI DSP, Top Brand IGBT (Infineon)
- · High stability, resonance avoidance
- · Hardware and software protection
- High reliability testing
- Good environmental adaptation

Advanced Performance

- Harmonic Control
- Three-phase load balancing
- Low noise
- Friendly human-machine interface

Pated Voltage	220V	400V	480V	690V.
kaled voltage	(171-269V)	(300-456V)	(356-515V)	(4ll3+793V)
Rated Capacity	10/20/30/40/50kvar	30/50/75/100/159kvar	30/50/75/100kvar	150/175/200kya
Phase System	3P3W/3P4W/sing	ie phase		
Main Frequency	50/60Hz±5%			
Circuit Topology	Three-level			
Multiple Compensation Modes	Reactive power of	ompensation, three-phas	e ioad imbalance com	pensation
Filter Range	Filtering range 21	to 25th odd harmonics, 10	0% of rated capacity	
Harmonic Reduction Rate	297.5% of rated c	apacity		
Filtering Performance	Typically, THO: s	5% for rated loads		
Neutral Line Filtering Capability	3 times the rated	filtering current in case of	4-wire equipment	
Three-Phase Load Balancing Effect	s 5% to mitigate :	regative and zero sequen	ce currents	
Switching/Control Frequency	25.6kHz			
Initial Response Time	550WE			
Total Response Time	s5ma			
System Active Loss	s2.5 per cent			
Qutput Current Limit	Automatically lim	ited to 100% output of rat	ed capacity	
Control Algorithm	FFT, Adaptive Cor	ntrol Algorithm , Fast Four	ier & Instant Reactive I	Power Algorithms
Controller	D5P+EPGA			
Protection	Hardware protect	tion, software protection		
Control Connections	Electrical Connec	tions		
Human Machine Interface	4.3-inch / 7-inch	/ 10-inch touch TFT LCD H	Mi	
Naise	<60db (<45db at i	iow speed operation)		
Installation Method	Module embedde	el (rack), wall-mounted, f	ioar-mounted	
Protection Level	IP20~IP54			
Cooling Method	Speed Control Int	elligent Air-cooled Coolin	g PWM Fan	
Colour	RAL 7035 Industri	al Grey/Black		
Ambient Temperature	-20-55°C			
Relative Humidity	95% max, no con	densation		
Installation Height Above Sea Level	Rated capacity at	altitude ≤2000m, approp	riate load shedding at	altitude >2000m
Qualification	CE, IEEE61000. Ty	pe Test Report, ISO9001:2	015	
Conformity	IEEE 519; ERG5/4			
Communication Protocol	Adopts Modbus R way R5485 and C	TU remote communicatio AN bus, support mobile pl	n protocol and TCP/IP hone APP operation is	protocol; Two

SVG Technical Advantages

Fast Response

The closed-loop response time of an SVG is 10 milliseconds, while the response speed of an SVC is 40-60 milliseconds or even longer.

Good Low Voltage Characteristics

When the SVC voltage drops from 1.0 to 0.4, the SVC output current drops from 1.0 to 0.4, and the output reactive power drops from 1.0 to 0.16.

In contrast, the SVG output current remains at 1.0, and the output reactive power drops from 1.0 to 0.4.

3 Superior Harmonic Characteristics

Use PWM modulation technology to reduce harmonics

High Compensation Accuracy

Typically, an SVC can only compensate the power factor to about 0.9, whereas an SVG can compensate the power factor to above 0.99

Improved Safety Performance

SVG uses an active type and does not generate resonance.

MES (Manufacturing execution system)

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PO Plan Arrival List

Key Parts Traceability

SO Shipping List

🎛 每月订单数量

🎛 每月发货数量

🎛 每月生产数量

Operational Dashboar...

C < ± 🖸

每月已发货数量 Shipped Quantity by Month 台)

S Operational Dashboard- F (KPI)

每月生产数量 Production Quantity (per month)

2023

2022

卓越制造二线 日常管理控制板

OpEx Line #2 Daily Management Control Board

今日在岗 C	今日节拍生产控制	x Today's TTA	Details							(λC Η	16行, 1/1页	$\langle \rangle$
YES 2	□ ~ 节拍达成	生产单号	产品序列号	规格型号	生产状态	实际开工时间	计划完工时间(组装)	实际完成时间(组装)	差异	问题备注	产线节拍	计划完工日期	
	1 🕚	S2024100018	YT24104050-3140	LASVG50G-4-4L-H-C1-I1	生产中	2024-10-12 08:36	2024-10-12 09:07	2024-10-12 09:07	0.0分钟		31.5分钟	2024-10-12	
	2 🕐	S2024100018	YT24104050-3141	LASVG50G-4-4L-H-C1-I1	生产中	2024-10-12 09:07	2024-10-12 09:38	2024-10-12 09:35	-3.0分钟		31.5分钟	2024-10-12	
	3 🕚	S2024100018	YT24104050-3142	LASVG50G-4-4L-H-C1-I1	生产中	2024-10-12 09:36	2024-10-12 10:17	2024-10-12 10:16	-1.0分钟		31.5分钟	2024-10-12	
	4	S2024100018	YT24104050-3143	LASVG50G-4-4L-H-C1-I1	生产中	2024-10-12 10:16	2024-10-12 10:47				31.5分钟	2024-10-12	
	5	S2024100018	YT24104050-3151	LASVG50G-4-4L-H-C1-I1	*#I						31.5分钟	2024-10-12	
	6	S2024100018	YT24104050-3150	LASVG50G-4-4L-H-C1-I1	*#I						31.5分钟	2024-10-12	
李海鸥-YT9017-操作工	7	S2024100018	YT24104050-3149	LASVG50G-4-4L-H-C1-I1	*#I						31.5分钟	2024-10-12	
	8	S2024100018	YT24104050-3148	LASVG50G-4-4L-H-C1-I1	秋 川						31.5分钟	2024-10-12	
0	9	S2024100018	YT24104050-3147	LASVG50G-4-4L-H-C1-I1	क्र ाम्						31.5分钟	2024-10-12	
	10	S2024100018	YT24104050-3146	LASVG50G-4-4L-H-C1-I1	*#I						31.5分钟	2024-10-12	
	11	S2024100018	YT24104050-3145	LASVG50G-4-4L-H-C1-I1	秋 川						31.5分钟	2024-10-12	
	12	S2024100018	YT24104050-3144	LASVG50G-4-4L-H-C1-I1	क्र ाम्						31.5分钟	2024-10-12	
邹良-YT9045-操作工	13	S2024100017	YT24102150-1423	LAPF150-4-4L-RW-I1-SR							42.0分钟	2024-10-12	
	14	S2024100017	YT24102150-1422	LAPF150-4-4L-RW-I1-SR							42.0分钟	2024-10-12	
组装日效率 (过去7天) 二线	15	S2024100017	YT24102150-1421	LAPF150-4-4L-RW-I1-SR	K AT I						42.0分钟	2024-10-12	
120%	16	S2024100017	YT24102150-1420	LAPF150-4-4L-RW-I1-SR							42.0分钟	2024-10-12	
103% 103% 100% 90%													

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Operational Dashboard	🏷 Key Pa	rts Traceabili	ity											c < ± Ω
PO Plan Arrival List	Key Part	Key Parts Tracking (总表) Q C 共8797行, 1/176页												, 1/176页 〈 〉
Key Parts Traceability		生产工单明细	产品序列号	产品型号	操作日期	操作员	当前工序	关键物料拍照	扫码LC	扫码LCL	扫码CAP	扫码CAP1	扫码主板	扫码驱动板
SO Shipping List	1	1-组装	YT24063030-2681	SVG30-2U-4-4L-RW-S02	2024-06-12 13:12	🐽 李海鸥	1-组装							
五日江首教 母	2	1-组装	YT24063030-2581	SVG30-2U-4-4L-RW-S02	2024-06-12 13:09	💿 吴改	1-组装	8 9 T F						
	3	1-组装	YT24065100-3425	MSVG100-4-4LRW-C1-	2024-06-12 13:01	😐 宋进平	1-组装							
田 每月发货数量	4	1-组装	YT24063030-2663	SVG30G2-4-4L-RW	2024-06-12 12:59	● 张恕	1-组装							
田 每月生产数量	5	1-组装	YT24063030-2684	SVG30-2U-4-4L-RW-S02	2024-06-12 12:49	😡 李海鸥	1-组装							
	6	1-组装	YT24063030-2582	SVG30-2U-4-4L-RW-S02	2024-06-12 12:45	💿 吴改	1-组装	8 9 T F						
	7	1-组装	YT24065100-3426	MSVG100-4-4LRW-C1-	2024-06-12 12:40	🐠 宋进平	1-组装							
	8	1-组装	YT24063030-2664	SVG30G2-4-4L-RW	2024-06-12 12:31	● 张恕	1-组装							
	9	1-组装	YT24063030-2685	SVG30-2U-4-4L-RW-S02	2024-06-12 12:26	🐽 李海鸥	1-组装							
	10	1-组装	YT24063030-2583	SVG30-2U-4-4L-RW-S02	2024-06-12 12:22	💿 吴改	1-组装	8 9 T F						
	11	1-组装	YT24065100-3427	MSVG100-4-4LRW-C1-	2024-06-12 11:04	🐠 宋进平	1-组装							
	12	1-组装	YT24063030-2686	SVG30-2U-4-4L-RW-S02	2024-06-12 11:03	🐽 李海鸥	1-组装							
	13	1-组装	YT24063030-2665	SVG30G2-4-4L-RW	2024-06-12 11:03	*** 张恕	1-组装							
	14	7-老化	YT2406-0001	SVG30G2-2U大机框	2024-06-12 11:02	€ 石加荣	7-老化							
	15	1-组装	YT24063030-2688	SVG30-2U-4-4L-RW-S02	2024-06-12 10:41	😡 李海鸥	1-组装							
	16	1-组装	YT24063030-2666	SVG30G2-4-4L-RW	2024-06-12 10:35	● 张恕	1-组装							
	17	1-组装	YT24063030-2689	SVG30-2U-4-4L-RW-S02	2024-06-12 10:18	😡 李海鸥	1-组装							
	18	6-调试	YT2406-0001	SVG30G2-2U大机框	2024-06-12 10:12	€ 石加荣	6-调试							
	19	1-组装	YT24063030-2667	SVG30G2-4-4L-RW	2024-06-12 09:58	👐 张忍	1-组装							
=/	20	1-组装	YT24063030-2584	SVG30-2U-4-4L-RW-S02	2024-06-12 09:57	🐽 宋进平	(1-須装)							

Strong R&D Team

Our company has a R&D team of **over 30%** of the total workforce

Diverse and Complete Testing Equipment

We have various equipment in **every stage** of research and development, testing, production, and inspection to **ensure the quality** of the finished product

Strict Quality Control Process

- 1 Incoming Inspection
- 2 Complete PCBA Production Line
- **3** FCT/ICT Testing Equipment
- 4 Lean Production Line Management
- **5** Aging Test
- 6 Functional Test

Each module undergoes **multiple tests** before leaving the factory.

PCBA production line

Automatic inspection of finished products

High temperature aging test at 40 $^{\circ}\mathrm{C}$

What We Offer

YT Electric Co., Ltd.

We are one of the biggest ODM/OEM manufacturer of SVG&AHF

We Always Give Priority to Client Satisfaction

Free Project Consultation

Global experience can help successfully complete entire project

Online Technical Support

Quick and timely technical support to help solve problems

Comprehensive Product Training

Help master product usage with detailed Manuals and Videos

Full product range

Advanced production process provide reliable product quality

Reliable After-Sales Service

Fast and professional after-sales team provides timely technical support. If the product malfunctions, free parts replacement will be provided within the warranty period up to a new module for free

Corporate Honors & Certificates

ISO Certificate (9001/14001/18001)

High-Tech Corporation

3C Certificate

CQC Type Test Report

Invention Patent Certificate

YT Electric Co., Ltd.

Product Test Reports & Software Copyright Registration Certficate

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Coporate Honors & Certificates

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The 6th China Innovation and Entrepreneurship Competition

Excellent Enterprise

Shanghai Harmonious Labor Relations **Standard Enterprise**

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National Convention Exhibition Centre

Shanghai Poly Real Estate

IDC Unicom Data Center

Karamy Oil Field

Application & Achievements

YT Electric Co., Ltd.

Iron Factory

Challenges

The reactive power generated by the electric welding machine is very fast, and the traditional capacitor compensation speed cannot be satisfied. The power factor before installation is about 0.63. Because the power factor is too low, it causes huge fines and low transformer utilization.

Resolution Process

- 1. Testing on the spot
- 2. Simulation analysis
- 3. Solution
- 4. Installation and debugging
- 5. Effectiveness verification

POWER& ENERGY FUND 0:01:02 Ō. 6.56 6.57 6.55 6.55 19.67 19.71 6.57 kU KUR 6.60 0.95 **k**VAR **+ 0.60** 0.03 0.38 PF 0.71 0.71 0.70 Cos 1.00 1.00 1.00 41.6 Arms 41.7 229 20 224.27 HOLD TREND

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Benefits for Customer

- ✓ To avoid penalty caused by low power factor, a monthly penalty of more than USD15,000 is exempted, and the power company rewards more than USD1,500.
- Improve system active power transmission capacity and equipment operating efficiency
- \checkmark Effectively suppress the influence of harmonics on the system

Offshore Drilling Platform

Challenges

- Large offshore power supply radius and low power factor lead to large voltage drop, which affects the normal operation of equipment
- A large number of variable frequency drive equipment generates a large number of harmonics, and the complex types of harmonics (even harmonics exist) cause damage to a large number of components in the system, overheating of cables, and communication failures.

Resolution Process

- 1. Testing on the spot
- 2. Simulation analysis
- 3. Solution
- 4. Installation and debugging
- 5. Effectiveness verification

Benefits for Customer

- ✓ The power factor is increased from 0.7 to 0.99, which improves the load capacity of the transformer and increases the oil output
- ✓ Effectively eliminate harmonics (including even harmonics), the harmonic distortion rate is reduced from 23.5% to about 2%, which protects the safety of electrical equipment
- \checkmark User investment payback period is short

Case Analysis Data Center

Industry: Data Center
Main Loads: UPS, DC Power Supply,
VSD,Frequency-alterable air-conditioner
Problems: Generate a lot of harmonics,Cause N
phase Current, Pollute the grid

- 1. Harmonic can interfere with communication signals.
- Easily cause the protection device to malfunction and lead to work delay accidents.
- Reduce the stability and life of equipment, cables, transformers and other equipment.
- 4. Reduce the utilization rate of transformers and pollute the power grid.

Case Study Data Center

Data Center Current Waveforms

Before YTPQC-AHF

After YTPQC-AHF

Data Center Harmonics

Before YTPQC-AHF

After YTPQC-AHF

Data Center PF,KW,KVA,KVAr

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Before YTPQC-AHF

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κW	176.6	164.1	177.2	517.9		
		В	C	Total		
kVR	177.2	164.6	177.7	520.3		
		В	C	Total		
kvar	+ 12.4	+ 11.0	+ 12.1	÷ 35.1		
		В	C	Total		
PF	1.00	1.00	1.00	1.00		
2/18/1	9 16:49:46	120V 50Hz	3.Ø WYE	EN50160		
UP ПОШМ	+	TREND	EVENT	S STOP		

After YTPQC-AHF

CONTACT US Get in touch

Wether you have a question about features, trial, pricing, need a demo, or anything else, our team is

ready to answer all your questions.

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