

Assemble by

engineer



Power Quality Solutions

PQS

SVG

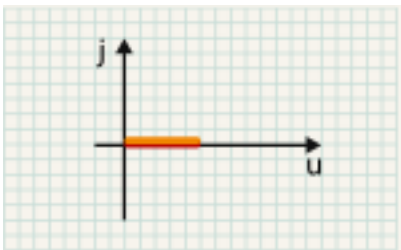
Static Var Generator

Active power compensation

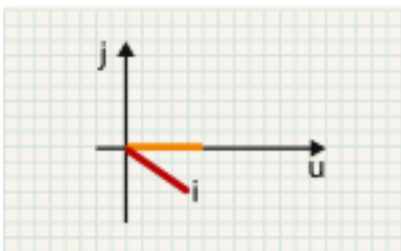
SVG, with the idea of using as a component, could compensate both inductive and capacitive loads to achieve **PF 0.99** and avoid under and over compensation.

Reactive Power Compensation

Different compensation model for different loads



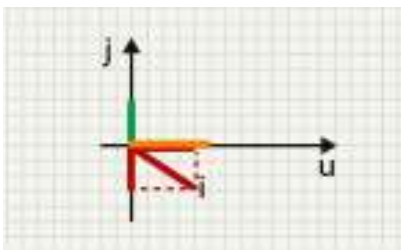
RESISTIVE LOAD such as filament lamp in vector gram, load appears resistive when current and voltage are phase congruency.



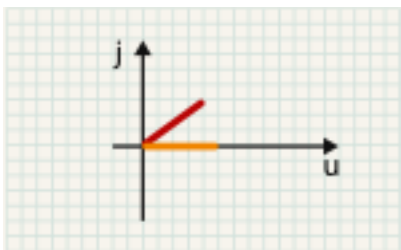
INDUCTIVE LOAD such as motor compressor relay and transformer.

Current of inductors lags voltage

In vector gram, anticlockwise direction is set to be positive direction and U direction as horizontal direction. Load appears inductive and resistive when I is within 0 to -90 degree.



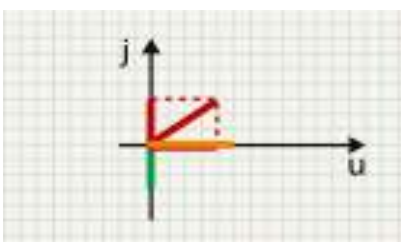
SVG generates capacitive current to neutralize inductive content of the load, achieving the performance for current and voltage phase congruency.



CAPACITIVE LOAD such as capacitor bank.

Current of capacitors leads voltage

In vector gram, anticlockwise direction is set to be positive and U direction as the horizontal direction. Load appears capacitive and when I is within 0 to 90 degree.



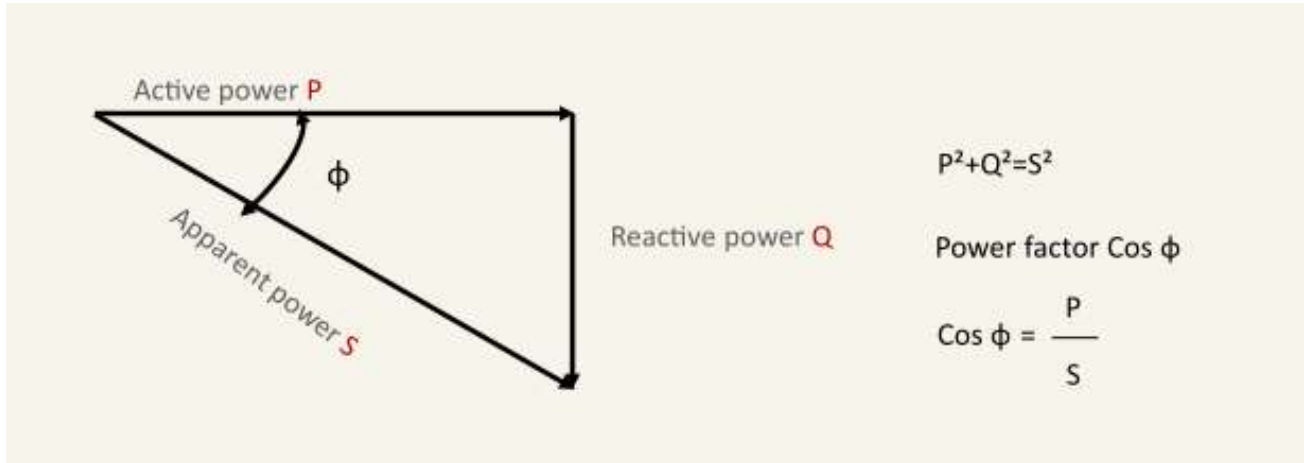
SVG generates inductive current to neutralize capacitive content of the load, achieving the performance for current and voltage phase congruency.

— Current — Voltage — Compensation Current

POWER FACTOR

Optimize your reactive power compensation efficiency

Active power, Reactive power, Apparent power and Power factor



Benefit from PFC



Avoid penalty for low PF by Utility Company.



Reduce electric energy loss.



Release system capacity occupied by reactive power, increase usage effectiveness of system capacity.

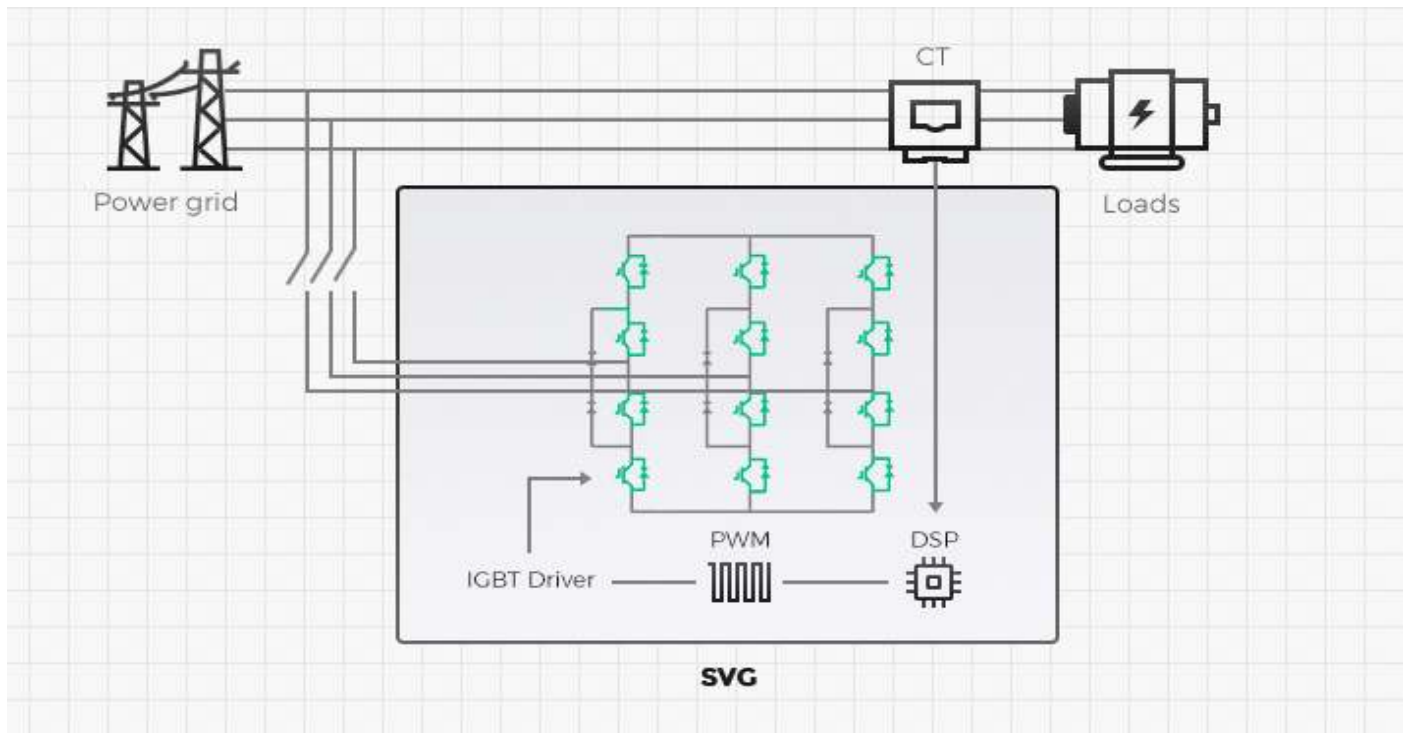
STATIC VAR GENERATOR TECHNOLOGY UPGRADATION OF POWER FACTOR CORRECTION

- 100% inverter based technology
- 100% digital & semiconductor control
- 100% intelligent compensation
- Reactive power compensation
- Three phase balancing
- Voltage stabilization



INVERTER BASED PFC

SVG works as a dynamic reactive power source, adopts high-speed computation components like DSP/IGBT, combining with super precise control program, following the grid current variation in real time, improving PF value to 0.99 within 15ms.

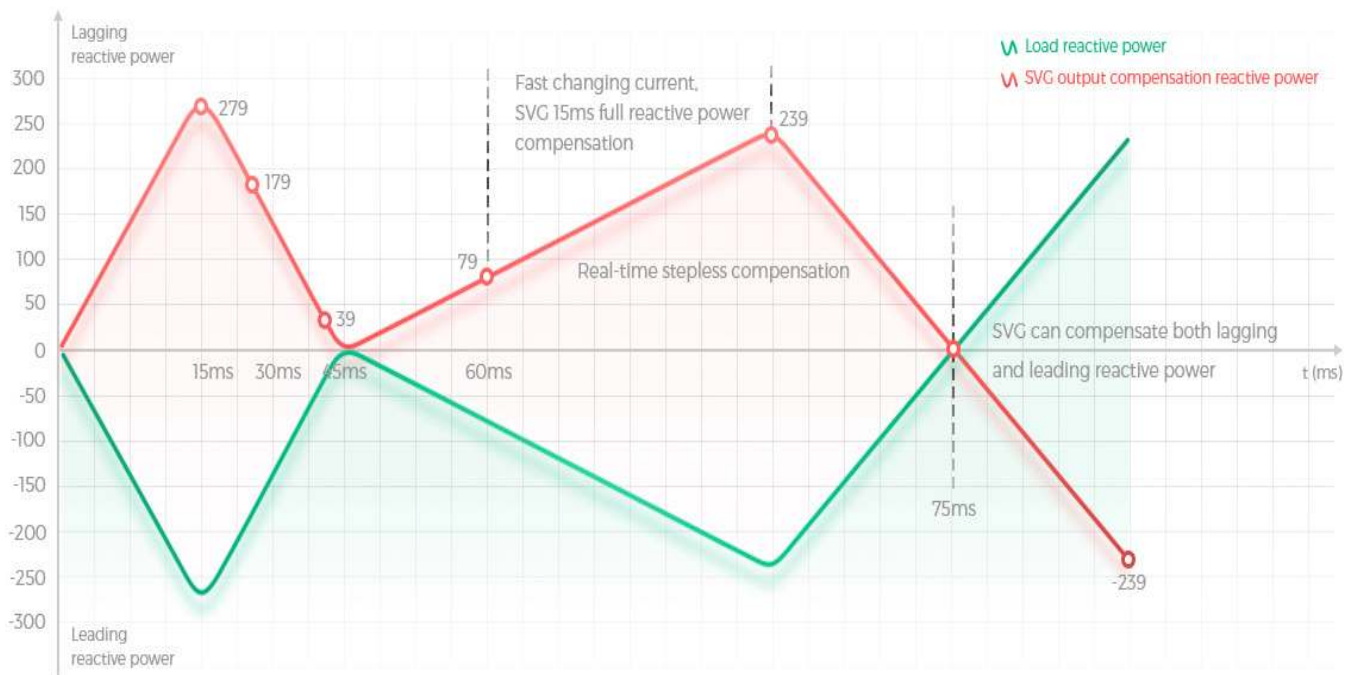
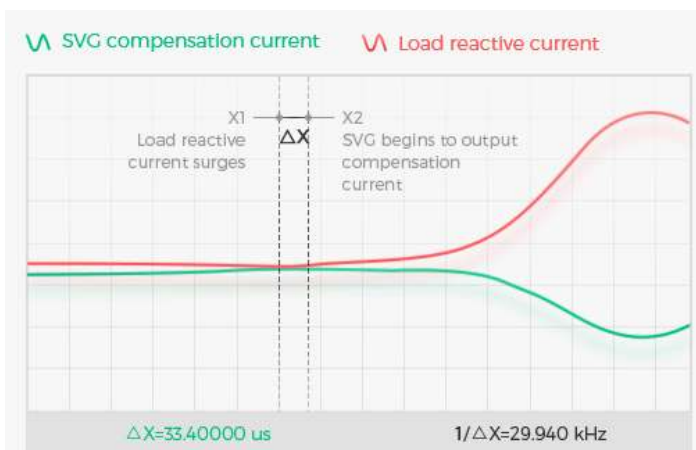


SVG WORKING

External CT detects the load current. **DSP** as CPU has advanced logic control arithmetic, could fast track the instruction current, divides the load current into active power and reactive power by using **the Instantaneous Reactive Power Algorithm**, and calculates the reactive power compensation current based on inverse PWM signal to IGBT's driver board to control **IGBT** on and off at average 20kHz frequency. Finally inductive or capacitive power compensation current is generated on inverter induction, at the same time CT also detects the output current and forms a negative feedback to DSP. Then DSP proceeds the next logical control to achieve more accurate and stable system.

STEP-LESS PFC

Started from 0.1 kvar for step-less compensation fully realized accurate compensation
Fast changing SVG 15ms full power factor correction.



Fast response time: 33.4μs



Full response time: 14.7ms

BEST STRATEGY FOR DYNAMIC CHANGING REACTIVE POWER

Ultrafast 15ms full compensation

Full operation process including load current detection, reactive power calculation, SVG real time outputs compensation current

Super stable

Less likely to be influenced by the changes of system impedance and voltage, not afraid of high THDI systems

Great performance

PF value up to 0.99

STANDARD SVG

Capacity:

400V (228V~456V): 100kvar/150 kvar/200 kvar

690V (483V~793V): 100kvar

Efficiency: $\geq 99\%$

Type: rack-mounted, wall-mounted

Wiring method: 3P4W

Rated frequency: 50Hz/60Hz

Function: Reactive power compensation. Three phase balancing, Voltage regulation

Operation mode: 6 operation modes can be set according to different needs. Eg. "Q+B": reactive power compensation first, then three phase balancing.



SVG CABINET SOLUTION

SVG modules can be integrated into a fully equipped electrical cabinet, designed according to the specific site voltage, load and required reactive power compensation capacity.

The cabinet can accommodate one or several SVG modules operating in parallel. This modular design allows the required system capacity to be selected and expanded in the future as the site load changes.

The SVG cabinet compensates both inductive and capacitive reactive power in real time, helps maintain a power factor of up to 0.99, and prevents both undercompensation and overcompensation.

**PRECISE REACTIVE POWER
CONTROL IN ONE INTELLIGENT
CABINET**



ULTRA SVG

Ultra Series Static Var Generator

The revolutionary **SiC Mosfet technology** has driven the design optimization of power quality products, which delivering unparalleled improvements in performance and application of Ultra Series. This transformation has reshaped the business model for power quality solutions, setting a new industry benchmark for excellence.



SILICON CARBIDE MOSFET



- Ultra-Low Loss
- High Withstand Voltage
- High Power Density
- High Heat Conduction Rate
- High Switching Frequency

Power electronics, every 0.5% increase in efficiency, is a great technological improvement. Silicon carbide mosfet, a new and high efficient power component, replaces ordinary silicon devices.

Peak Efficiency 99%

TINY DIMENSION BUT HUGE CAPACITY

High heat resistance, high thermal conductivity, and high switching frequency, these advantages of SiC bring lower heat dissipation and less ripple current output to Ultra Series SVG.



400V Ultra SVG 100 kVar (Wall)
Size: 500x88x520mm (WxDxH)



400V Ultra SVG 100 kVar (Rack)
Size: 500x520x100mm (WxDxH)

LESS VENTILATION REQUIREMENT

The drift region of SiC can be made thinner so it has high heat resistance and high thermal conductivity. This advantage make the Ultra Series SVG produce less heat so the heat dissipation is lower.

The low thermal demands of these SiC active filter modules make them particularly suitable for use in high IP-rated cabinets. Since they require less cooling airflow, they can operate effectively within the confined and sealed environment of these cabinets without the risk of overheating.



TECHNOLOGY OVERVIEW

Items	Ultra series SVG	
Rating	100 kvar/ 150 kvar/ 200 kvar	
Function	reactive power compensation and three-phase unbalance compensation	
System Parameters		
Nominal Voltage	380~480V（-10%~10%）	
L-N Voltage	220~278V（-10%~10%）	
Supply Frequency	50/60Hz, auto sensing（Range：45Hz~62.5Hz）	
Parallel Units	Unlimited	
Efficiency	99%	
Electrical System	3Ph 3wire	
CT Location	Load / Supply side	
Performance Indicators		
Control Algorithm	FFT, intelligent FFT, and instantaneous reactive power	
Reaction Time	<50us	
Overall Response Time	<15ms	
Target Power Factor	Adjustable -1 to +1	
Switching Frequency	Average 40kHz,up to 95kHz	
Communication Ports	RS485,Ethernet（Rj45）	
Communication Protocol	Modbus RTU, TCP/IP	
Module Display Interface	4.3-inch HMI（module）, 7-inch HMI（central monitor） and LED	
Protection Functions	Over-voltage,under-voltage,short circuit inverterbridge, over compensation and so on	
Mounting Type	Wall-mounted, Rack-mounted and Cabinet	
Dimensions	19.7"W*20.9"D*3.5"H	19.7"W*24.4"D*3.9"H
Net Weight	27kg	35kg
Storage Temperature	-40℃ to +70℃	
Operating Temperature	-10℃ to +40℃（may derate capacity if operating temperature exceeds 40）	
Relative Humidity	5% to 95% Non Condensing	
Operating Altitude	<1500m, 1500 to 4000m, capacity is derating 1% for every 100m altitude increased	
Protection Class	NEMA1	

AHF

Active Harmonic Filter

HARMONIC CONTROL IN ELECTRIC POWER SYSTEMS



Active Harmonic Filter can realize 2nd to 50th harmonic compensation, compensation ratio can be set selectively by the customers, output compensation current follows the system harmonic variation, devoted to green power quality.

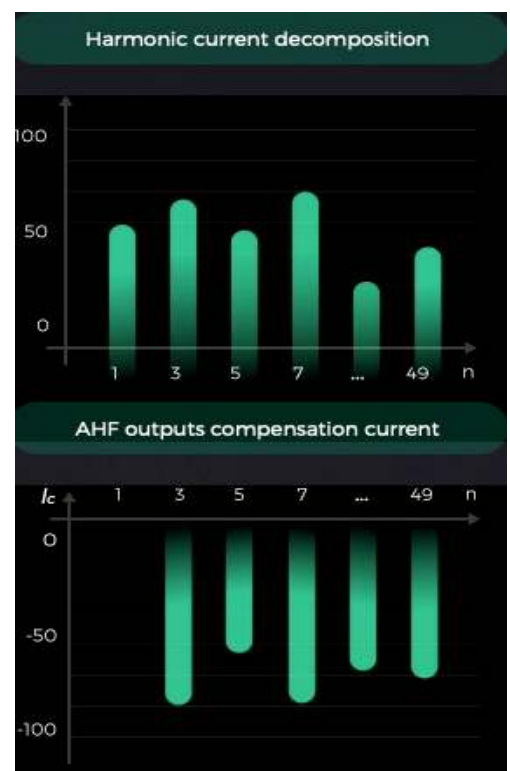
Different loads generate variety harmonic content which changes dynamically during different working conditions.



INTELLIGENT FAST FOURIER TRANSFORM

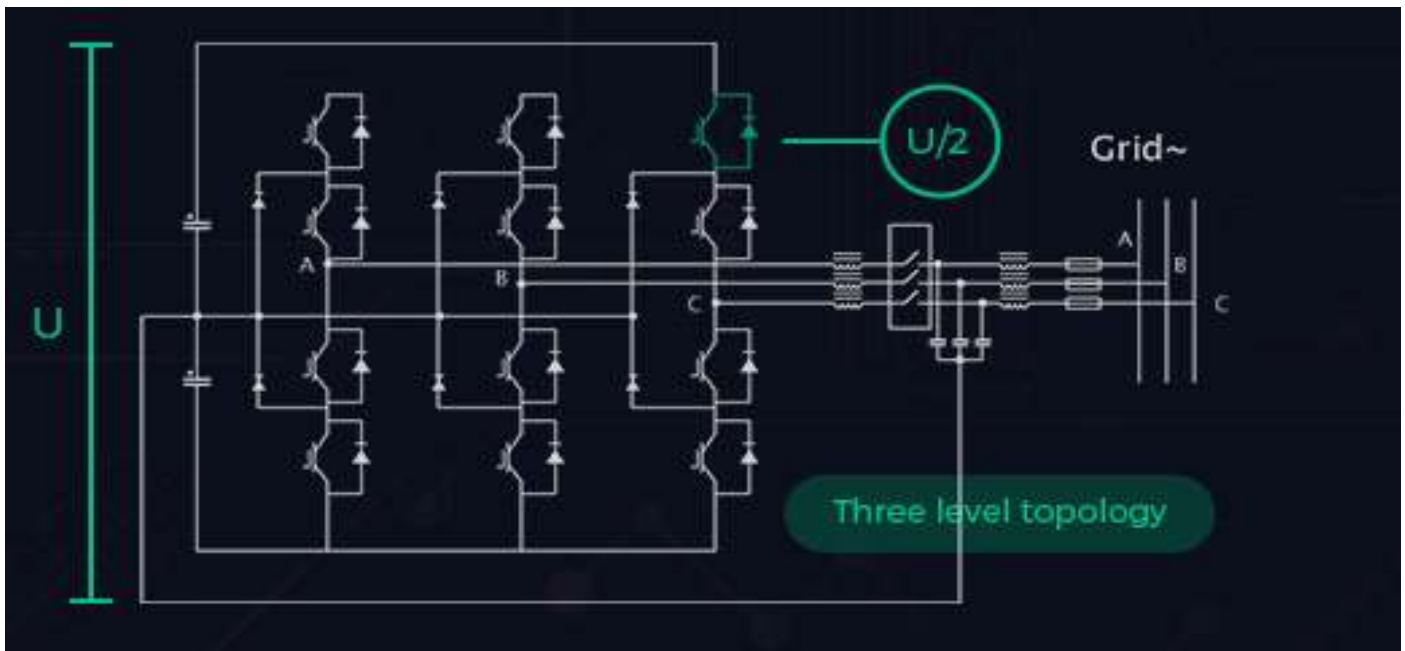
One of the biggest characteristics of Active PQ solution is to use information technology to manage energy. With the characteristics of high accuracy and high speed of computing power, empower users PQ will obtain continuous, stable and infinitely close to the highest energy efficiency of power energy.

Intelligent FFT is an iterative FFT algorithm based on updated computing power and ten years of experience in field harmonic waveform database.



3-LEVEL TOPOLOGY

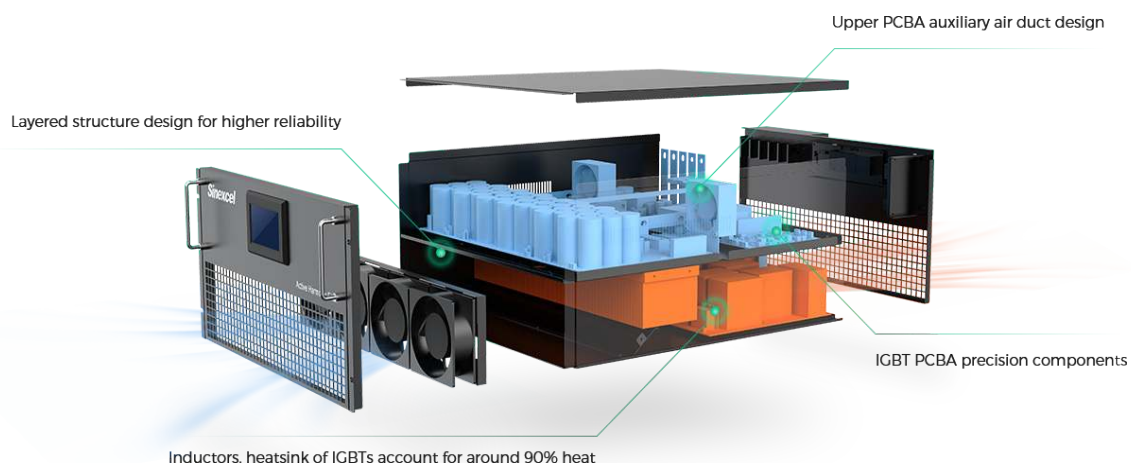
- One more output level, less ripple current content.
- Output PWM waveform is more similar to sinusoidal wave, better harmonic compensation effect.
- The volume of LCL filter is reduced, beneficial for AHF module design.
- Less inductance loss, improving the system efficiency.
- IGBT withstand voltage stress cut into half, effectively reduce the switching loss.
- Less switching loss of IGBTs, more thermal margin, higher switching frequency.



INDEPENDENT AIR DUCT DESIGN

Upper and lower layer design, IGBT heatsink and inductor, which account for most heat of AHF, are concentrated in the lower layer, forcing air cooling, fast heat dissipation, and do not affect the upper PCBA

Upper PCBA auxiliary air duct design, expansion of heat dissipation channel, wide angle heat dissipation.



NONLINER LOADS

INDUSTRIAL EQUIPMENT

Induction furnaces, static converters, VFD, welding machines.

WHY HARMONIC HURT YOUR SYSTEM?

Higher harmonic current would lead to capacitors' inner swelling, oil spilling and fire risk, severe discharge, flashover and overheat, resulting in over-current and over-voltage, accelerating the aging of the capacitor dielectric, lower safety levels of installations, which cause the unnecessary financial losses.

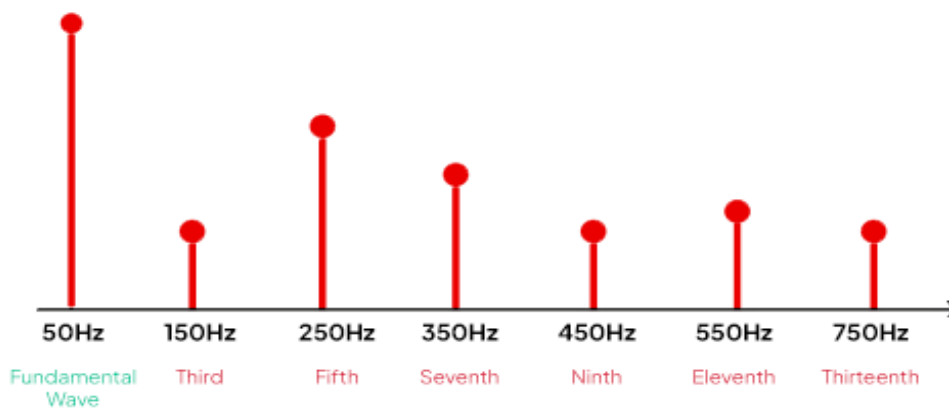
OFFICE EQUIPMENT

Computers, servers, printers.

Higher orders harmonic cause more serious distortion on the grid voltage and current waveform, which will increase the transformer copper and iron losses or load imbalance.

UNINTERRUPTIBLE POWER SUPPLIES (UPS)

Affect the equipment efficiency and occupy unnecessary grid capacity cause overheating of equipment and shortening the lifetime.



STANDARD AHF

Capacity:

100/150/300kvar

Voltage: 220V/400V/480V/600V/690V

Efficiency: $\geq 99\%$

Monitoring: LED/4.3inch HMI/7inch HMI

Harmonic Filtering range: 2~50 orders

Switching frequency: average 20KHz

Wiring method: 3P4W

Rated frequency: 50Hz/60Hz



ULTRA AHF

Ultra Series Active Harmonic Filter

The revolutionary **SiC Mosfet technology** has driven the design optimization of power quality products, which delivering unparalleled improvements in performance and application of Ultra Series. This transformation has reshaped the business model for power quality solutions, setting a new industry benchmark for excellence.



Performance breakthrough brought by SiC technology

99%

Ultra high
efficiency

97%

Enormous
harmonic
compensation rate

>165 CFM

Less ventilation
requirement

>18 KG

Tiny dimension but
huge capacity

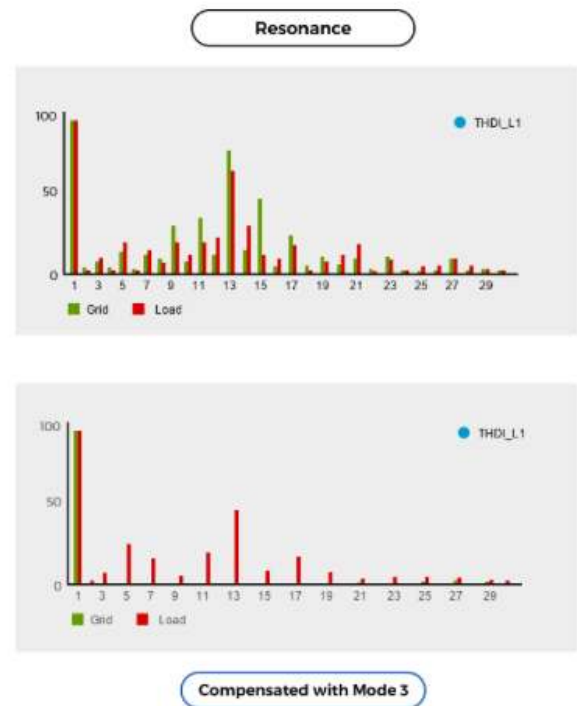
Benefits to user

- Efficiency improvement
- Energy saving
- Electricity fee saving
- Higher ROI
- Longer lifetime of electrical equipment
- Reduced risk of resonance
- Harmonic distortion reduction
- Improved power quality
- Lower transformer and cable losses
- Reduced equipment overheating



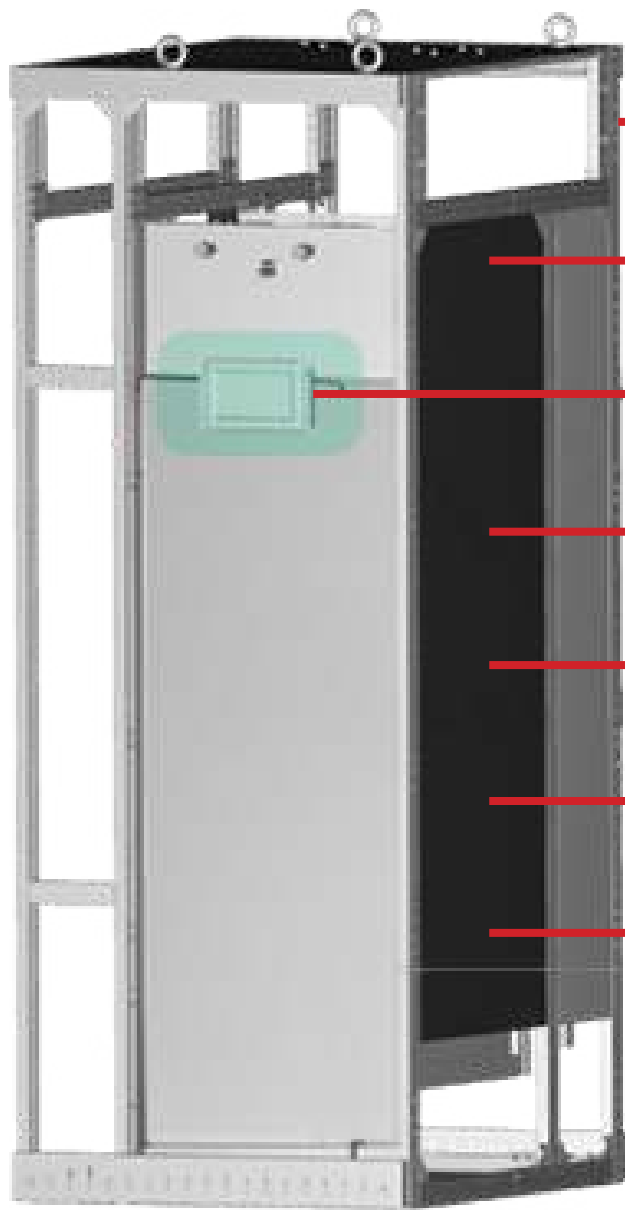
RESONANCE SUPPRESSION

In the process of solving power quality problems, how to solve the resonance is the direction that the industry has been focusing on; when the system resonates, it will generate a voltage several times higher than the power supply. And will be applied in the capacitors, transformers, circuit breakers, and other equipment in the circuit, even causing insulation damage to high-voltage electrical equipment.



HRGKS

Engineer Hybrid Reactive Power Compensator



Components:

Cabinet (2000 x 800 x 600)

100 kVar SVG

Touchscreen controller

460 V capacitor

METH 7% inductors

Siemens contactors

Special designet fuse

Possible system options:

200 kVar – 650 kVar



+



+



FUNCTIONS OF THE **HRGKS** SYSTEM:

Hybrid Reactive Power Compensation



Combines a detuned capacitor bank and a Static Var Generator (SVG).



Operates in parallel with the loads to provide dynamic and accurate reactive power control.

Optimized Capacitor Bank Control



SVG functions as a power factor correction (PFC) controller for the detuned capacitor bank.



Uses standardized detuned capacitor step ratio (1:1:1:1:1) for simplicity and cost efficiency.



SVG manages intermediate steps, eliminating the need for different step ratings.



Efficient Reactive Power Management



Capacitor bank covers the main capacitive reactive power demand.



SVG module compensates for smaller and fluctuating requirements.



Provides both capacitive and inductive compensation in real time, preventing overcompensation.

CAPACITOR BANK POWER
+
SVG PRECISION

HRGKS SYSTEM ADVANTAGES:

Stepless & Seamless Output:

No visible steps in reactive power, ensuring smoother performance than using capacitor banks or reactor banks alone.

Single CT Input:

Only one CT signal required—no duplication needed.

No System Hunting:

No additional controllers required for capacitor or reactor banks.

No need for different step ratios:

Capacitor banks can be built with all steps of the same rating (e.g., 50 kvar), simplifying the design and requiring only one type of capacitor unit in stock.

Capacitive & Inductive Real-Time Compensation:

HRGKS also provides inductive reactive power, ensuring accurate balance and preventing overcompensation from steps or loads.

No Risk of Harmonics:

Eliminates harmonic amplification and resonance in the system.

Compact & Expandable:

Space-saving design with straight forward scalability.





Active Voltage Conditioner

- Ideal solution for voltage sag
- Maintain your uptime as every second counts

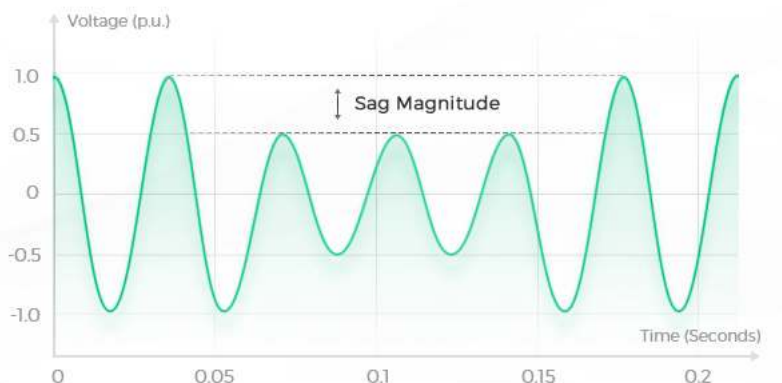
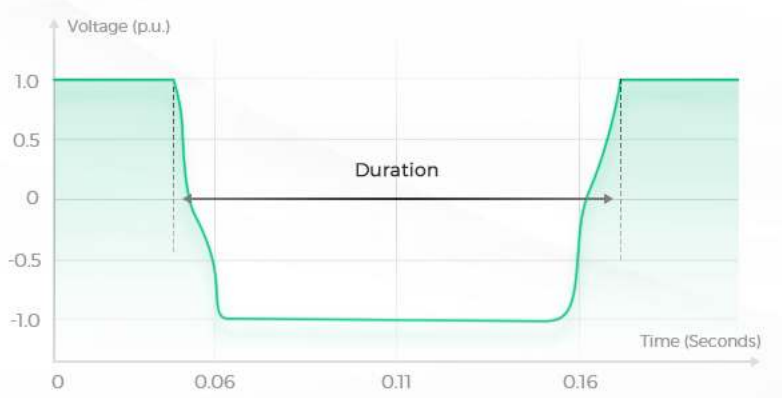


WHAT IS VOLTAGE SAG?

According to IEEE standard 1159-1995, a voltage sag is defined as a decrease in RMS voltage down to 90% to 10% of nominal voltage for a time greater than 0.5 cycles of the power frequency but less than or equal to one minute.

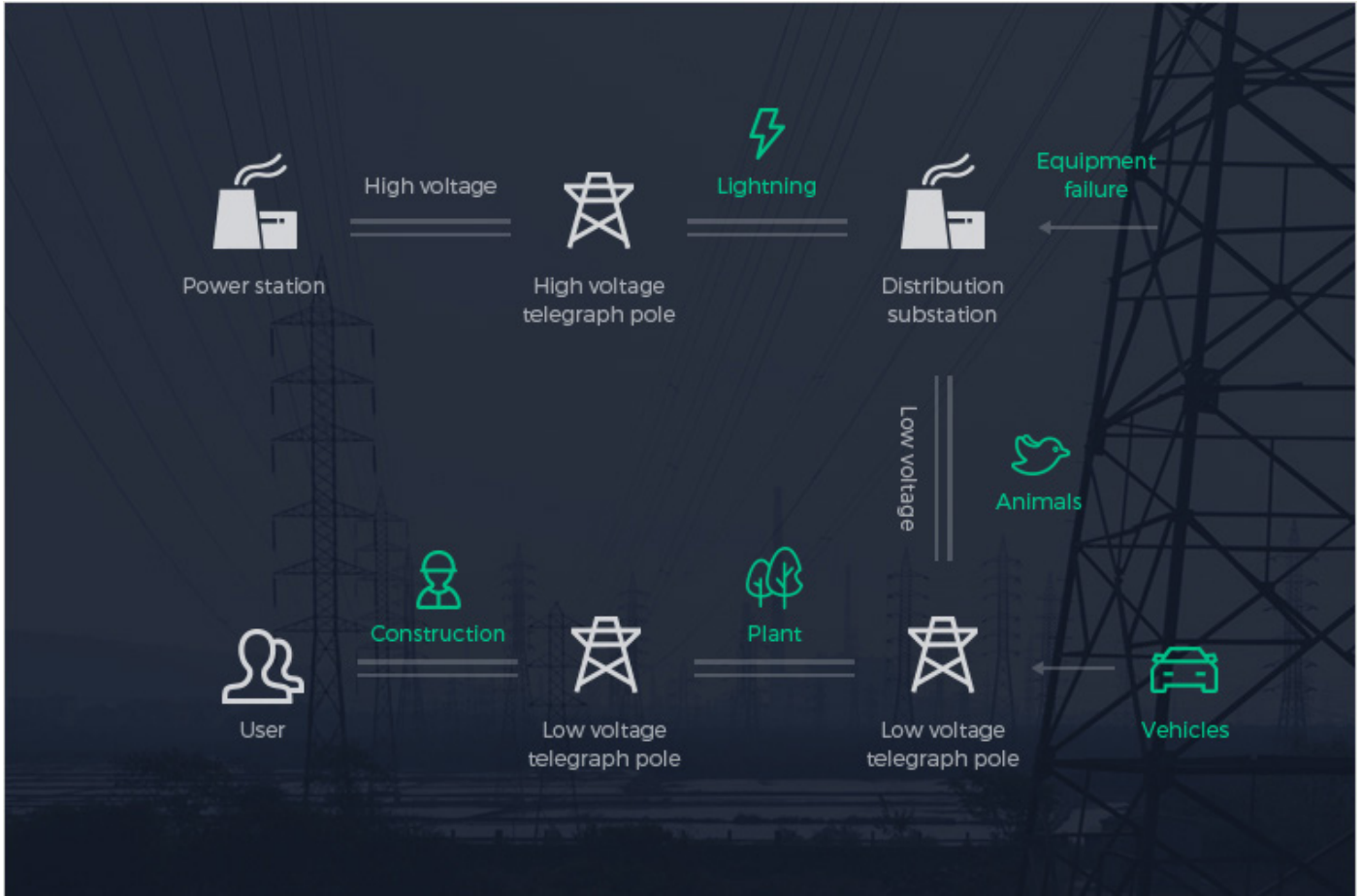
Characteristic of voltage sags:

- High frequency of occurrence
- The time of sag is unpredictable
- Short duration and deep depth



COMMON CAUSE OF VOLTAGE SAGS

Voltage sag is generally caused by the failure of power grid, substation facilities or sudden large changes in load. In the process of long-distance transmission, there are many unpredictable situations, such as power system fault, lightning strike, large motor starts, capacitor switching and other events in the transmission and distribution system.



Natural cause

Extreme weather like lightning strikes, typhoon, hurricanes and storms cause a short circuit to the ground in the transmission line, activated the protective action, causing voltage sag around the fault point.

Power system cause

Starting of heavy machine and short circuit fault, etc.

Unpredictable accident

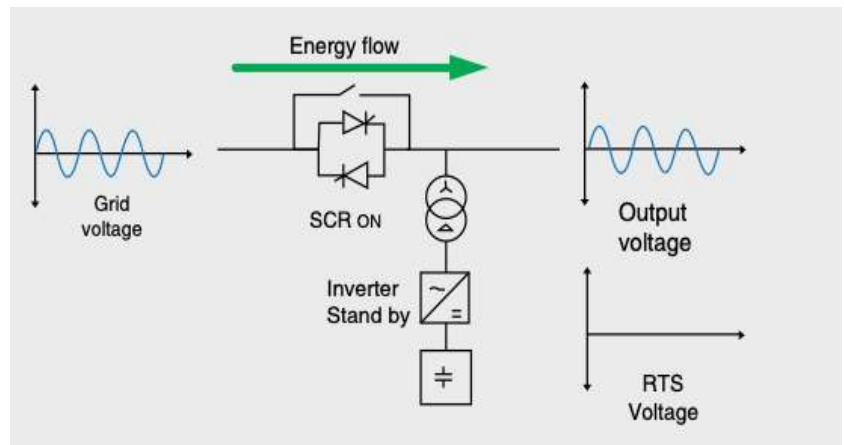
Traffic accident may damage the electric pole; Construction accidents like hoist machine contact the overhead line and excavation construction can destroy the underground electric cable; Animals' invasion to the transmission line. All of these sudden and inevitable accidents may cause short circuit which lead to voltage sag.

WORKING PRINCIPLE

AVC-RTS is installed between the load and power supply, in the event of an outage, voltage drops or swells, AVC-RTS will transfer the load to the backup energy storage system, powered by the super capacitors to ensure the sensitive loads are well protected.

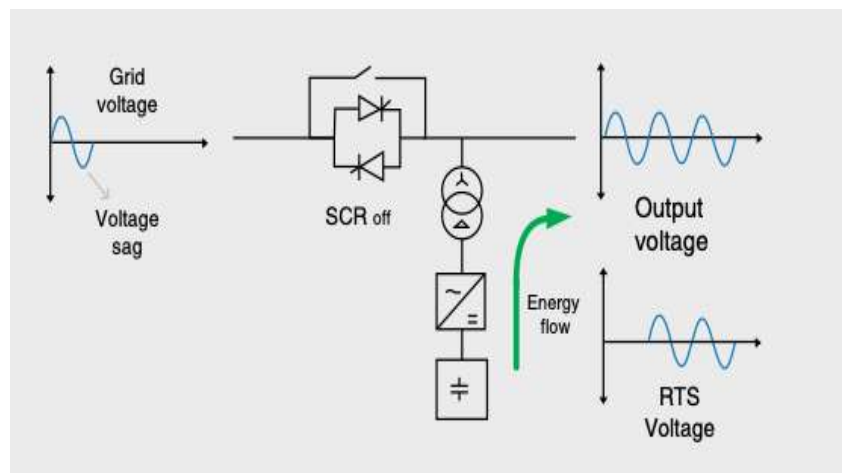
1. Utility voltage within normal range

Thyristor is on, power to the load is supplied from the utility.



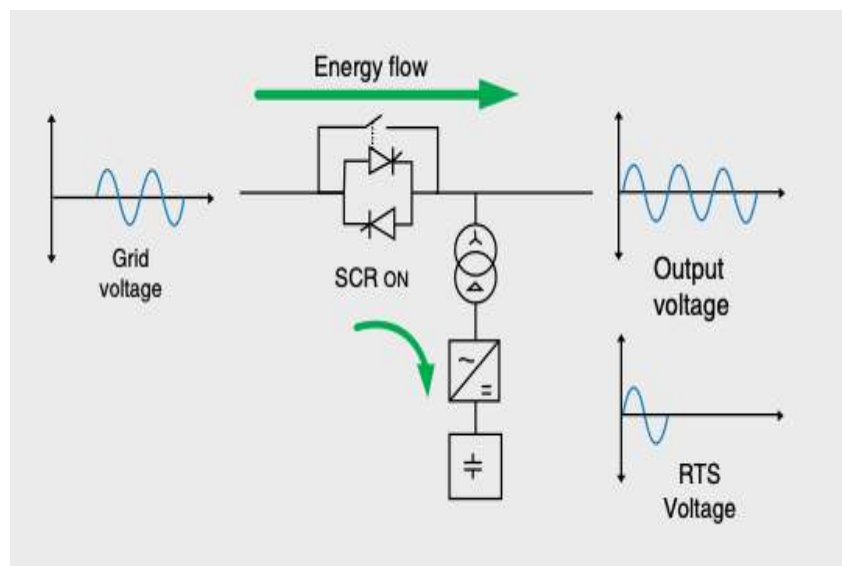
2. Voltage sag/voltage swell occurs

Thyristor is off, isolated the grid voltage from the load, power to the load is switched to super capacitors within 1/4 cycle.



3. Utility back to normal

Thyristor is on, power to the load is switched back to the utility, the super capacitors start to charging in preparation for the next voltage event.



TECHNOLOGY OVERVIEW

AVC System parameters	
Rated input voltage range	208V/220V/380V/400V/480V/600V/690V
Input voltage range	-20%~+20%
Frequency	50/60Hz / 45Hz~65Hz
Efficiency	>99%
Network structure	3P3L/3P4L
Topology design	3-level
Performance index	
System capacity	50/60/100/150/300/450/600/750/900/1200/1500/1800/2100/2400 kVA
Function	Voltage sag compensation, Voltage swell compensation
Compensation capability	Compensate 0~130% residual voltage to 100% voltage lasting for 3s to 30s as standard module can support 3s. Other requirement can be customized.
Switch voltage value	Continuously adjustable gradient 0.1V
Quick response time	<100μs
Whole response time	<5ms, normally 2ms
Breakdown bypass	enable
Maintain bypass	Can be selected
Noise level	<65db
Communication capability	
The cooling way	Fan cooling
Screen	7-inch full color touch screen
Parameter setting and data display	Status information, Operation information, Events recording, etc.
The event log and data records	Comply
Wave record and display function	Optional
Interface	RS485/Ethernet
Communication protocol	Modbus, TCP/IP
Dry contact	Working status and breakdown points
Protection function	Inverter short-circuit protection / Inverter bridge reverse protection / Over-voltage/under-voltage protection (DC bus) / Over-loaded protection / Cooling system protection / Leakage current protection / Lightning strike protection / Control system fault protection / Over-temperature protection / Thyristor failure protection / Bypass fault protection, etc.
Mechanical properties	
Ambient temperature	-10~+40C
Relative humidity	5%~95%, non-condensing
Protection class	IP20, can be customized
Standards	DL/T12292013, Q/GDW681—2011, EN50178, CISPR11, C-Tick, CE, Semi F47

AVC-RTS

Capacity:

50/60KVA

Voltage: 208/380/480/600V

Dimension: 1200W800D1800H (mm)

standard maintenance bypass

Capacity: 100KVA

Voltage: 208/380V

Dimension: 800W1000D2200H (mm)

standard maintenance bypass

Frequency: 50/60Hz

Voltage range: -20%~+20%

Wiring method: 3P3W/3P4W

Voltage compensate range: 0~130%

Standard back up time: 3 seconds,
can be customized

Capacity:

150/200/250/300KVA

(208/380V/480/600V)

450KVA (208/380/480/600V)

600/900/1200KVA (208/380/480/600V)

1500/1800/2400KVA (380/480/600V)

Frequency: 50/60Hz

Voltage range: -20%~+20%

Wiring method: 3P3W/3P4W

Voltage compensate range: 0~130%

Standard back up time: 3 seconds,
can be customized

Optional maintenance bypass

≤1200KVA, N+1 inverter redundancy design



UPS

UNINTERRUPTED POWER SUPPLY

Power Range:
30 kVA – 600 kVA

Power quality, system stability, and the efficiency of electrical equipment are essential to reliable modern operations.

Built on advanced power conversion technology and a strong focus on efficiency, the latest uninterrupted power supply solutions deliver stable, continuous, and high-quality power for critical applications.

A new generation of UPS technology ensures greater reliability, improved energy efficiency, and uninterrupted performance.

99%+2ms

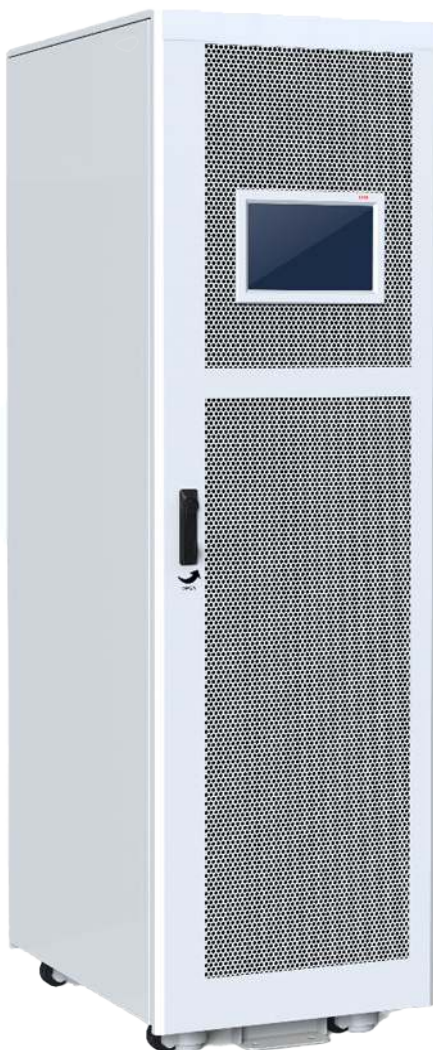
ECO mode as
default working
mode

97%

Online mode
efficiency

100%

Full power support



UPS 300 kVA

Features

Reliable

- Wide input voltage input to minimize battery use
- Redundant auxiliary power supply design enhance system reliability
- High input power factor (>0.99) and low harmonic distortion (<3%)

Intelligent battery management system

- Adjustable charging current and charging voltage, flexible battery configuration
- Compatible with lead-acid battery, lithium battery and super capacitor

Advanced monitoring system

- User-friendly 7-inch and 12-inch LCD touch screen for easy UPS operation
- Monitoring system can record the waveform of power abnormal event to support advanced event analysis.
- Recorded data can be exported via USB port

TECHNOLOGY OVERVIEW

MODEL		UPS 100	UPS 300	UPS 600
Rated capacity(kVA)		30~100	150~300	350~600
INPUT	Input Wiring	3Ph+N+PE		
	Rated Voltage	380/400/415Vac		
	Voltage Range	138~485V (linear derating between 138~305V)		
	Frequency Range	40~70Hz		
	Input Power Factor	0.99		
	Harmonic Distortion (THDi)	≤3% (100% linear load)		
Bypass input	Bypass Rated Voltage	380/400/415Vac		
	Bypass Frequency	50/60Hz, depend on the load		
Battery	Rated Voltage	360~600Vdc (The number of batteries can be selected from 30 to 50; 40 batteries in default)		
OUTPUT	Output Voltage	380/400/415Vac		
	Voltage Regulation	±1%		
	Waveform	Sine wave		
	Crest Factor	3:1		
	Output frequency	Tracking the bypass input (Bypass mode); 50/60±0.5Hz (Battery mode)		
	Response Time	Online Mode response continuously; switching time of Eco Mode ≤5ms, typical 2ms		
	Inverter Overload Capacity	110% overload for 60min 125% overload for 10min 150% overload for 1min		
	Harmonic Distortion (THDv)	≤1% (linear load)		
		≤3% (non linear load)		
SYSTEM	Output Power Factor	1		
	Efficiency	Super Eco Mode efficiency > 99%; Online Mode: System efficiency > 97%		
	Bypass Overload Capacity	135% overload long time 150% to 200% overload for 5min 200% to 1000% overload for 1min >1000% overload 100ms		
	Communication	RS485, CAN, Ethernet, SNMP (optional), backfeed protection card (optional), WIFI (optional), 4G (optional), dry contacts (optional)		
Environment	Operating Temperature	-10~40C		
	Storage Temperature	-40~70C		
	Relative Humidity	0~95% non condensing		
	Audible Noise	60~75dB		
	Altitude	<1000m (over 1000m, derating rate based on EN/IEC 62040-3, max 4000m)		
Physical	Protection class	IP21 (can be customized)		
	Monitoring	7-inch LCD	12-inch LCD touch screen	
	Dimension (W*D*H, mm)	600×830×1207	600×830×2000	1400×980×2010
	Net weight (kg)	Approx. 280kg	Approx. 500kg	Approx. 1091kg
	Cabinet Color	RAL7035 (can be customized)t		
Standards	Certification	TLC, CE (IEC/EN62040-1, IEC/EN62040-2), etc		

MODULAR UPS

UNINTERRUPTED POWER SUPPLY

Power Range:
40 kVA – 600 kVA



50kVA power module in 3U



UPS 300kVA



UPS 600kVA

High reliability

- Wide input voltage 138~485VAC allows UPS to work in harsh electrical environments to minimize battery use
- Dual control card and dual auxiliary power supply ensure continuous system operation and avoid single failure point
- Power module auto-offline function to avoid downtime caused by single power module failure
- Joint power mode to support inverter obtains power from mains input and batteries

High performance

- Super Eco mode, 99% efficiency + 2ms switching time
- High power module efficiency up to 97.5% and online dual operation efficiency up to 97% for significant energy cost savings
- High input power factor up to 0.99

High power density

- 50kVA power module in 3U height, easy for capacity expansion

Fully modularized design

- Hot-swappable modular design, easy to replace the power module, reduce the mean time to repair (MTTR) close to zero without no downtime

Flexible energy storage configuration

- Compatible with battery and super capacitor
- The number of batteries can be selected from 30 to 50

TECHNOLOGY OVERVIEW

MODEL		UPS 100	UPS 300	UPS 600
Rated capacity(kVA)		40~100	150~300	350~600
INPUT	Input Wiring	3Ph+N+PE		
	Rated Voltage	380/400/415Vac		
	Voltage Range	138~485V (linear derating between 138~305V)		
	Frequency Range	40~70Hz		
	Input Power Factor	0.99		
	Harmonic Distortion (THDi)	≤3% (100% linear load)		
Bypass input	Bypass Rated Voltage	380/400/415Vac		
	Bypass Frequency	50/60Hz, depend on the load		
Battery	Rated Voltage	360~600Vdc (The number of batteries can be selected from 30 to 50; 40 batteries in default)		
OUTPUT	Output Voltage	380/400/415Vac		
	Voltage Regulation	±1%		
	Waveform	Sine wave		
	Crest Factor	3:1		
	Output frequency	Tracking the bypass input (Bypass mode); 50/60±0.5Hz (Battery mode)		
	Response Time	Online Mode response continuously; switching time of Super Eco Mode ≤5ms, typical 2ms		
	Inverter Overload Capacity	110% overload for 60min 125% overload for 10min 150% overload for 1min		
	Harmonic Distortion (THDv)	≤1% (linear load) ≤3% (non linear load)		
SYSTEM	Output Power Factor	1		
	Efficiency	Super Eco Mode efficiency > 99%; Online Mode: Power module efficiency > 97.5%, System efficiency > 97%		
	Bypass Overload Capacity	135% overload long time 150% to 200% overload for 5min 200% to 1000% overload for 1min >1000% overload 100ms		
	Communication	RS485, CAN, Ethernet, SNMP (optional), backfeed protection card (optional), WIFI (optional), 4G (optional), dry contacts (optional)		
Environment	Operating Temperature	-10~40C		
	Storage Temperature	-40~70C		
	Relative Humidity	0~95% non condensing		
	Audible Noise	60~75dB		
	Altitude	<1000m (over 1000m, derating rate based on EN/IEC 62040-3, max 4000m)		
Physical	Protection class	IP21 (can be customized)		
	Monitoring	7-inch LCD	12-inch LCD touch screen	
	Dimension (W*D*H, mm)	600×830×1207	600×830×2000	1400×980×2010
	Net weight (kg)	Approx. 280kg	Approx. 500kg	Approx. 1091kg
	Cabinet Color	RAL7035 (can be customized)		
Standards	Certification	TLC, CE (IEC/EN62040-1, IEC/EN62040-2), etc		



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