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YOUR TRUSTED POWER QUALITY PARTNER



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PRODUCT CATALOG



KURO - Control the Invisible

PRODUCT
CATEGORY

CONTENTS :

- CONTENTS 01
- EXPLANATION 02
- KURO - S SERIES SVG/ AHF 03
- KURO - P SERIES - IP55 AHF/ SVG OUTDOOR SOLUTION 07
- KURO - E SERIES - COMPACT AHF/SVG 09
- KURO - LN SERIES LOW NOISE - SILENT FAN SVG/AHF 11
- KURO - MINI SERIES SVG/AHF(PARALLEL / SERIES TYPE) 13
- KURO - ACTIVE VOLTAGE CONDITIONER (AVC) 15
- KURO - DYNAMIC VOLTAGE RESTORER (DVR)17



POWER QUALITY



POWER
QUALITY

KURO power quality equipment includes current-type devices AHF and SVG, and voltage-type devices DVR and AVC.

AHF (Active Harmonic Filter) and SVG (Static Var Generator) are core power quality compensation devices designed to address key issues such as harmonic pollution, reactive power, and three-phase imbalance. They are widely used in various complex power consumption scenarios including industrial production, commercial buildings, new energy grid integration, data centers, etc., providing comprehensive power optimization for power systems.

DVR (Dynamic Voltage Restorer) and AVC (Active Voltage Conditioner) are designed to solve problems such as voltage sags, swells, fluctuations, and long-term voltage deviations. They are widely used in scenarios with extremely high voltage stability requirements, such as industrial production lines, data centers, precision laboratories, and medical facilities, providing voltage safety protection and production optimization.

01

Current Solution

SVG Static Var Generator

AHF Active Harmonic Filter

02

Voltage Solution

AVC Active Voltage Conditioner

DVR Dynamic Voltage Restorer



KURO - S SERIES BEST SOLUTION SVG/ AHF



INTRODUCTION

Simultaneously provides harmonic filtering, reactive power compensation, and three-phase imbalance correction functions, the priority of these functions can be flexibly adjusted. The Full response time is less than 10ms, suitable for various load conditions.

ADVANTAGE



Ultra fast response time



16 comprehensive protection functions



Compact dimension



Easy to install

Static Var Generator - 0.22kV/0.4kV

Rated Capacity at 0.22kV	15kvar	25kvar	35kvar	55kvar	75kvar
Rated Capacity at 0.4kV	30kvar	50kvar	75kvar	100kvar	150kvar

Active Harmonic Filter - 0.22kV/0.4kV

Rated Capacity at 0.22kV	50A	75A	100A	150A	200A
Rated Capacity at 0.4kV	50A	75A	100A	150A	200A

Technical Specifications

Module Size (Rack)(W*D*H)(mm)	460*483*86	540*545*190	540*545*190	540*551*219	540*595*219
Module Size (Wall)(W*D*H)(mm)	424*89*541	504*193*591	504*193*591	503*222*609	503*222*653
Net Weight	16kg	32kg	34kg	42kg	44kg
Air Flow for Heat Dissipation	4x80CFM	3x120CFM	4x120CFM	4x190CFM	4x190CFM
Rated Voltage	220V(176V-264V)/ 400V(304V-456V)				
Frequency	50Hz/ 60Hz(Range: 45Hz- 62.5Hz)				
Wiring Structure	1P2W/ 2P3W/ 3P3W/ 3P4W				
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF)				
Reactive Power Compensation	Adjustable from -1 to +1				
Unbalance Correction	100% imbalance correction				
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on				
Current Transformer	50/5-8000/5				
Compensation Rate	≥97%				
Filter Performance	THDi<5%				
Noise Level	<65dB				
Response Time	50us				
Full Response Time	<10ms				
IGBT Switching Frequency	20kHz				
Topology Design	3 level topology				
Parallel Quantities	Unlimited				
Communication Port	RS485 Communication & Optional Ethernet				
Communication Protocol	Modbus Protocol & TCP/IP Protocol				
Module Display Interface	4.3" Display/7" /10" extra Display				
Mounting Type	Wall mounted/ Rack mounted/ Cabinet				
Monitoring	Independent monitoring and centralized monitoring				
Standard Compliance	EN IEC 61000; EN IEC 62477; UL 508 2024 and CSA C22.2				
Protection Class	IP 20(Can be customized)				
Operating Temperature	-10-45°C				
Relative Humidity	5% to 95% non-condensing				
Altitude	Up 2000 m. Between 2000 m to 4000 m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m.				
Color	Black or Customized Color				

Static Var Generator - 0.48kV					
Rated Capacity	12/ 20/ 30kvar	40kvar	60kvar	80/100kvar	120kvar
Active Harmonic Filter - 0.48kV					
Rated Capacity	15A/ 25A/ 35A	50A	75A	100A/120A	150A
Technical Specifications					
Module Size (Rack)(W*D*H)(mm)	460*483*86	540*545*190	540*545*190	540*551*219	540*551*219
Module Size (Wall)(W*D*H)(mm)	424*89*541	504*193*584	504*191*584	503*222*609	503*222*609
Net Weight	16kg	32kg	34kg	42kg	42kg
Air Flow for Heat Dissipation	4x80CFM	3x120CFM	4x120CFM	4x190CFM	4x190CFM
Wiring Structure	3P3W	3P3W/3P4W	3P3W/3P4W	3P3W/3P4W	3P3W
Frequency	50Hz / 60Hz (Range: 45Hz-62.5Hz)				
Rated Voltage	480V(384V-528V)				
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF)				
Reactive Power Compensation	Adjustable from -1 to +1				
Unbalance Correction	100% imbalance correction Over-voltage protection, under-voltage				
Protection Function	protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on				
Current Transformer	50/5-8000/5				
Compensation Rate	≥ 97%				
Filter Performance	THDi<5%				
Noise Level	<65dB				
Response Time	50us				
Full Response Time	<10ms				
IGBT Switching Frequency	20kHz				
Topology Design	3 level topology				
Parallel Quantities	Unlimited				
Communication Port	RS485 Communication & Optional Ethernet				
Communication Protocol	Modbus Protocol & TCP/IP Protocol				
Module Display Interface	4.3" Display/7" /10" extra Display				
Mounting Type	Wall mounted/ Rack mounted/ Cabinet				
Monitoring	Independent monitoring and centralized monitoring				
Standard Compliance	EN IEC 61000; EN IEC 62477; UL 508:2024 and CSA C22.2				
Protection Class	IP 20(Can be customized)				
Operating Temperature	-10-45°C				
Relative Humidity	5% to 95% non-condensing				
Altitude	Up 2000 m. Between 2000 m to 4000 m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m.				
Color	Black or Customized Color				

Static Var Generater - 0.69kV/0.8kV		
Rated Voltage	690V(483V-759V)	800V(560V-880V)
Rated Capacity	120kvar	138kvar
Active Harmonic Filter - 0.69kV/0.8kV		
Rated Voltage	690V(483V-759V)	800V(560V-880V)
Rated Capacity	100A	80A
Wiring Structure	3P4W/ 3P3W	3P3W
Technical Specifications		
Module Size (Rack)(W*D*H)(mm)	540*743*250	
Module Size (Wall)(W*D*H)(mm)	504*253*786	
Net Weight	64kg	
Air Flow for Heat Dissipation	4x190CFM	
Frequency	50Hz/ 60Hz (Range: 45Hz - 62.5Hz)	
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF)	
Reactive Power Compensation	Adjustable from -1 to +1	
Unbalance Correction	100% imbalance correction	
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on	
Current Transformer	50/5-8000/5	
Compensation Rate	≥ 97%	
Filter Performance	THDi<5%	
Noise Level	<65dB	
Response Time	50us	
Full Response Time	<10ms	
IGBT Switching Frequency	20kHz	
Topology Design	3 level topology	
Parallel Quantities	Unlimited	
Communication Port	RS485 Communication & Optional Ethernet	
Communication Protocol	Modbus Protocol & TCP/IP Protocol	
Module Display Interface	4.3" Display/7" /10" extra Display	
Mounting Type	Wall mounted/ Rack mounted/ Cabinet	
Monitoring	Independent monitoring and centralized monitoring	
Standard Compliance	EN IEC 61000; EN IEC 62477; UL 508:2024 and CSA C22.2	
Protection Class	IP 20(Can be customized)	
Operating Temperature	-10-45°C	
Relative Humidity	5% to 95% non-condensing	
Altitude	Up 2000 m. Between 2000 m to 4000 m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m.	
Color	Black or Customized Color	

KURO - P SERIES

IP55 AHF/ SVG OUTDOOR SOLUTION



INTRODUCTION

The outdoor series modules are independent modules designed specifically for outdoor environments. With an IP55 protection rating, they offer both dust and water proof and can be used directly in outdoor sites.

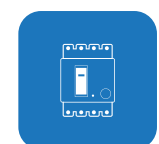
ADVANTAGE



Against Rain & Snow



Suitable for Dusty & Humid Environments



Built-in Circuit Breaker



Support Remote Control

IP55 Outdoor Static VAR Generator

Rated Capacity at 0.22kV	15kvar	25kvar	35kvar	55kvar
Rated Capacity at 0.4kV	30kvar	50kvar	75kvar	100kvar
Rated Capacity at 0.48kV	40kvar		80kvar	100kvar

IP55 Outdoor Active Harmonic Filter

Rated Capacity at 0.22kV	50A	75A	100A	150A
Rated Capacity at 0.4kV	50A	75A	100A	150A
Rated Capacity at 0.48kV	50A		100A	120A

Technical Specifications

Module Size(W*D*H)(mm)	550*250*780	550*250*780	630*300*880	630*300*880
Net Weight	60kg	60kg	78kg	78kg
Air Flow for Heat Dissipation	4*120CFM	4*120CFM	5*210CFM	5*210CFM
Rated Voltage	480V(384V-528V)/ 400V(304V-456V)/ 220V(176V-264V)			
Frequency	50Hz/ 60Hz(Range: 45Hz-62.5Hz)			
Wiring Structure	3P3W/ 3P4W			
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF);			
Reactive Power Compensation	Adjustable from -1 to +1			
Unbalance Correction	100% imbalance correction			
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on			
Current Transformer	50/5-8000/5			
Compensation Rate	≥ 97%			
Filter Performance	THDi<5%			
Noise Level	<65dB			
Response Time	50us			
Full Response Time	<10ms			
IGBT Switching Frequency	20kHz			
Topology Design	3 level topology			
Parallel Quantities	Unlimited			
Communication Port	RS485 Communication & Optional Ethernet			
Communication Protocol	Modbus Protocol & TCP/IP Protocol			
Module Display interface	7"/ 10" Display			
Mounting Type	Cabinet			
Monitoring	Independent monitoring and centralized monitoring			
Standard Compliance	IEC 61000; IEC 62477			
Protection Class	IP 55			
Operating Temperature	-10-50°C			
Relative Humidity	0% to 95% non-condensing			
Altitude	Up 2000 m. Between 2000 m to 4000 m,the power decreases by 1% for every additional 100 m.			
Color	RAL7035			
Built-in circuit breaker	Available			

KURO - Essential SERIES COMPACT SVG/ AHF



INTRODUCTION

Simultaneously provides harmonic filtering, reactive power compensation, and three-phase imbalance correction functions, the priority of these functions can be flexibly adjusted. The Full response time is less than 10ms, suitable for various load conditions.

ADVANTAGE

- 

Ultra fast response time
- 

16 comprehensive protection functions
- 

Compact dimension
- 

Easy to install

Static Var Generator - 0.4kV

Rated Capacity at 0.4kV		35kvar	50kvar	75kvar	100kvar

Active Harmonic Filter - 0.4kV

Rated Capacity at 0.4kV		50A	75A	100A	150A

Technical Specifications

Module Size (Rack)(W*D*H)(mm)		440*425*88	440*425*88	500*550*100	500*550*100
Module Size (Wall)(W*D*H)(mm)		440*88*425	440*88*425	500*100*550	500*100*550
Net Weight		14 kg	17.5 Kg	29 Kg	31 Kg
Air Flow for Heat Dissipation					

Rated Voltage	400V(340V-460V)
Frequency	50Hz/ 60Hz(Range: 45Hz- 62.5Hz)
Wiring Structure	3P3W/ 3P4W
Harmonic Filtering	2nd-15th(SVG); 2nd-50th(AHF)
Reactive Power Compensation	Adjustable from -1 to +1
Unbalance Correction	100% imbalance correction
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on
Current Transformer	Closed or Open Loop
Compensation Rate	≥98.5%
Filter Performance	THDi<5%
Noise Level	<69dB (depending on the Load and Model)
Response Time	110us
Full Response Time	<5ms
IGBT Switching Frequency	20 kHz
Topology Design	3 level topology
Parallel Quantities	Maximum 20 Units Can Be Combined
Communication Port	RS485 / CAN Ports
Communication Protocol	Modbus Protocol & TCP/IP Protocol
Module Display Interface	1.8/4.3" Display/7" extra Display
Mounting Type	Wall mounted/ Rack mounted/ Cabinet
Monitoring	Independent monitoring and centralized monitoring
Standard Compliance	EN IEC 61000-6-4; EN IEC 62477-1 (2012), EN 61439-1 (2011); CE; CQC
Protection Class	IP 20
Operating Temperature	-25-55°C Derating usage above 45°C
Relative Humidity	5% to 95% non-condensing
Altitude	Derating usage > 1500m
Color	Black or Customized Color

KURO - LN SERIES

LOW NOISE FAN

SVG/AHF



INTRODUCTION

The silent fan series use quieter fans compared to standard products, which brings lower noise levels while offering higher capacity compared to fanles models. It represents the optimal choice for balancing noise control and capacity.

ADVANTAGE

Noise<50dB

Flexible Installation

Technical Specifications	AHF		SVG	
Rated Capacity At 0.4kv	15/ 20/ 30A	50 / 75A	10/ 15/ 20kvar	30/ 50kvar
Rated Capacity At 0.22kv	15/ 20/ 30A	50 /75A	5/ 7/ 10kvar	15/ 25kvar
Module Size(Wall Mounted)(W*D*H)(mm)	420*86**420	440*160*550	420*86*420	440*160*550
Net Weight	16kg	30kg	16kg	30kg
Rated Voltage	220V(176V-264V)/ 400V(304V-456V)			
Frequency	50Hz/ 60Hz(Range: 45Hz- 62.5Hz)			
Wiring Structure	3P4W/ 3P3W			
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF)			
Reactive Power Compensation	Adjustable from -1 to +1			
Unbalance Correction	100% imbalance correction Over-voltage protection,under-voltage			
Protection Function	protection, short-circuit protection, inverter bndge inverse protection,over-compensation protection and so on			
Curent Transfommer	50/5-8000/5			
Compensation Rate	≥97%			
Filter Performmance	THDi<5%			
Noise Level	50dB			
Response Time	50us			
Full Response Time	<10ms			
Igbt Switching Frequency	20kHz			
Topology Design	3 level topology			
Parallel Quantities	Unlimited			
Communication Port	RS485 Communication & Optional Ethernet			
Communication Protocol	Modbus Protocol & TCP/IP Protocol			
Module Display Interface	4.3" Display/7" /10" extra Display			
Monitoring	Independent monitoring and centralized monitoring			
Standard Compliance	EN IEC 61000; EN IEC 62477; UL 508 2024 and CSA C22.2			
Protection Class	IP 20			
Operating Class	-10-45°C			
Relative Humidity	5% to 95% non-condensing			
Altitude	Up 2000 m. Between 2000 m to 4000 m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m.			
Color	Black or Customized Color			

KURO - MINI SERIES

SVG/AHF (PARALLEL / SERIES TYPE)



INTRODUCTION

The MINI-series is a compact product designed specifically for applications with low capacity requirements. This series comes in two versions:

- 1.Parallel type, which connects in parallel to the system and uses CT’s to sample the load current.
- 2.Series type, where integrates the CT and circuit breaker within the module.

Simply connect the module in series between the power grid and the load to complete all wiring, providing a one-stop solution for end users.

ADVANTAGE



Tiny dimension



Flexible installation

Technical Specifications	AHF	SVG
Rated Capacity at 0.22kV	10A	3kvar
Rated Capacity at 0.4kV	10A	5kvar
Module Size (In Parallel)(W*D*H)(mm)	260*165*415	
Module Size (In Series)(W*D*H)(mm)	260*160*616	
Net Weight	8.5kg	
Air Flow for Heat Dissipation	3x37CFM	
Rated Voltage	400V(304V-456V); 220V(176V-264V)	
Frequency	50Hz/ 60Hz(Range: 45Hz - 62.5Hz)	
Wiring Structure	3P4W(400V); 3P4W& 3P3W(220V)	
Harmonic Filtering	2nd-13th(SVG); 2nd-50th(AHF)	
Reactive Power Compensation	Adjustable from -1 to +1	
Unbalance Correction	100% imbalance correction	
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bridge inverse protection, over-compensation protection and so on	
Current Transformer	X/ 20mA	
Compensation Rate	≥ 97%	
Filter Performance	THDi<5%	
Noise Level	<50dB	
Response Time	50us	
Full Response Time	<10ms	
IGBT Switching Frequency	20kHz	
Topology Design	2 level topology	
Parallel Quantities	Unlimited	
Communication Port	RS485 Communication	
Communication Protocol	Modbus Protocol	
Module Display Interface	4.3" Display/7" /10" extra Display	
Mounting Type	Wall mounted	
Monitoring	Independent monitoring and centralized monitoring	
Standard Compliance	EN IEC 61000; EN IEC 62477; UL 508:2024 and CSA C22.2	
Protection Class	IP 20	
Operating Temperature	-10-45°C	
Relative Humidity	5% to 95% non-condensing	
Altitude	Up 2000 m. Between 2000 m to 4000 m, according to GB/T3859.2,the power decreases by 1% for every additional 100 m.	
Color	Black or Customized Color	
Note	For module (In Series) , the maximum allowable load current is 50 amps.	

KURO - ACTIVE VOLTAGE CONDITIONER (AVC)



INTRODUCTION

AVC is a solution designed for voltage sags and swells of up to 30%. The AVC is connected in series between the load and the power grid, and is responsible for stabilizing the voltage downstream.

ADVANTAGE

- 

±30% Sag And Swell
Continuously Compensation



Indoor And Outdoor
Both Available
- 

Remotely Monitoring And
Controlling



Reactive Compensation
- 

Harmonic Compensation



Current Unbalance
Compensation

Technical Specifications	Single-phase system		Three-phase system			
AVC Capacity	10kVA	20kVA	30kVA	50kVA	100kVA	125kVA
Load Capacity	30-100kVA	65-200kVA	300-100kVA	170-500kVA	330-1000kVA	400-1250kVA
Voltage Regulation	30%-10%	30%-10%	30%-10%	30%-10%	30%-10%	30%-10%
Standard Size(W*D*H)(mm) (Support Customization)	550*600*700		800*800*1200			
Net Weight	100kg	120kg	400kg	600kg	800kg	1000kg
AC Voltage Range	220V±30%		400V±30%			
DC Voltage Range	380-450V		620-800V			
Output Voltage Accuracy	≤1%					
Frequency	50Hz/ 60Hz(Range: 45Hz-62.5Hz)					
Efficiency	≥98%					
IGBT Switching Frequency	20kHz					
Full Response Time	<20ms					
Overload Protection	Maximum operating time at 110% overload: long time Maximum operating time at 120% overload: 1min Instantaneous overload capacity: 150%					
Protection Function	Over-voltage protection, under-voltage protection, short-circuit protection, inverter bndge inverse protection, over-compensation protection and so on					
Bypass Function	Dual automatic bypass:Electronic bypass and mechanical bypass					
Bypass Switching Time	Electronic bypass: ≤1ms; Mechanical bypass: ≤30ms					
Reactive Power Compensation	Adjustable from -1 to +1					
Harmonic Filtering	2nd-13th					
Unbalance Correction	100% imbalance correction					
Noise Level	<60dB					
Display Interface	7"/ 10" Display					
Communication Protocol	Modbus Protocol & TCP/ IP Protocol					
Monitoring	Independent monitoring and centralized monitoring					
Cooling Method	Forced air cooling					
Protection Class	IP 20(Can be customized)					
Operating Temperature	-10-40°C					
Relative Humidity	5% to 95% non-condensing					
Altitude	Up 2000 m. Between 2000 m to 4000m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m					

KURO - DYNAMIC VOLTAGE RESTORER (DVR)



INTRODUCTION

Dynamic Voltage Restorer (DVR) quickly switches to power supply to the load within 3ms when a voltage sag occurs in the mains power supply, protecting precision or sensitive loads from voltage sag disturbances.

ADVANTAGE



High efficiency and rapid response



High reliability, bypass design



Simple to operate and maintenance -free



No harmonic pollution

Technical Specifications

Rated Voltage	220V/ 400V/ 480V/ 690V				
Network structure	3P3W/3P4W				
Topology design	3 level topology				
Rated Capacity	30kVA-100kVA	200kVA	300kVA	500kVA	Customized other capacity
Standard Size(W*D*H)(mm)	800*800*2200	Two 800*800*2200	Two 1000*800*2200	Two 1000*800*2200	Customized Size
Voltage Sag Compensation Range	0%-90%				
Response time	<3ms				
Overload Protection	Maximum operating time at 110% overload: long time Maximum operating time at 120% overload: 1min Instantaneous overload capacity: 150%				
Support Time Allowable Grid	3s(Can be customized)				
Frequency Protection Against	50Hz/ 60Hz (Range: 45Hz - 62.5Hz)				
Continuous Sags Off-grid AC Voltage	Allowed				
Control Accuracy Off-grid AC Voltage	<1%				
Imbalance Off-grid Output Voltage	<2%				
Distortion	< 3% (Can handle nonlinear loads)				
Relative Humidity	5% to 95% non-condensing				
Cooling	Forced air cooling				
Protection class	IP 20(Can be customized)				
Color	Can be customized				
Noise Level	< 65dB				
Display	10" Display				
Communication Port	RS485/ CAN				
Communication Protocol	Modbus/ CAN2.0				
Altitude	Up 2000 m. Between 2000 m to 4000m, according to GB/T3859.2, the power decreases by 1% for every additional 100 m				

Energy Storage Parameters

Energy Storage Component	Super Capacitor
Overload Capability	100%
Cycle Life	500000
Operating Temperature	-25 °C - +45 °C
Storage Temperature	-20 °C - +50 °C