



More **POWER** by
Saving **ENERGY**



Power Solution Provider

About



Wenzhou **Energy Power Save CO.,LTD.** is one of a leading company in designing and manufacturing **Power Quality** and **Energy Saving** products in the world.

Since 1979, has pioneered improvements in power solutions sectors for **Industrial, Commercial, Medical, Broadcast and Telecom** applications. Our products range various from **Voltage Stabilizers, Voltage Optimisers, Voltage Regulator, Transformers and Reactors** to **Frequency Converters, Harmonic Filters, Power Factor Correction** and **Surge Protectors**.
















products are designed and manufactured with the worldwide ISO quality standards. Besides standard production, can be extremely flexible in developing and manufacturing special tailored specifications thanks to a proficient technology development.

is well established in the international markets. Thanks to strategically positioned offices and distributors, Energy's products are installed and working in over 50 countries and regions around the world.

Energy is committed to provide complete innovative and cost-effective power quality and energy saving solutions coupled with excellent customer service for all kinds of critical applications.



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Servo Voltage Stabilizer
 DBW / SBW Series
 Single Phase / Three Phase
 10 - 5000 KVA

Fewer failures, better equipment
 protection, more uptime and lower
 energy costs across a wide range
 of industries and applications



Features & Benefits

- Maintenance free roller type carbon brush
- Unique compact dimension
- Independent phase regulation
- Voltage vector control allowing overload
- High efficiency, up to 98%(full load)
- High Mean Time Between Failure(MTBF)
- Completed protections

Applications

- Telecom & Broadcast
- Industrial
- Commercial
- Medical & Scientific

Technical Specifications

Input					
Input voltage	220/380V, 230/400V, 240/415V system, other voltage system can be customized				
Input Range	±20% (±15% ~ ±50% can be customized)				
Input Frequency	50/60Hz				
Output					
Output Voltage	220/380V, 230/400V, 240/415V system, other voltage system can be customized				
Output Accuracy	Selectable: ±1% to ±5%, Factory preset: ±2%				
Waveform Distortion	Nil				
Power Factor	0.8~1				
Efficiency	≥98%(full load)				
Overload Capacity	200% Over Load 10secs, 150% Over Load 60secs, 120% Over Load 10 mins				
General					
Working Principle	Servo motor, microprocessor controlled, full automatic				
Insulation Class of Transformer	H class				
Method of Voltage Regulation	Three phase independent regulation				
Indicators	Voltage, Current, Power, Parameters setting, Failure information				
Cooling	Natural/forced air				
Protection Level	IP21(indoor), IP54(outdoor)				
Electrical Safety	CE equivalent				
Environmental					
Working Temperature	-20 °C to +50 °C				
Altitude	<1000m				
Relative Humidity	<90%				
Noise	<55dB				
Functions					
Normal Functions	Malfunction protection, Short-circuit protection, Lack of phase protection, Wrong sequence protection, Over voltage / Under voltage protection, Overload protection, Safe start, Manual bypass, Indicating alarms, Security password, RS232/485 interface				
Optional Functions	Isolation transformer, Surge protector(SPD), GPRS or Wifi communication, Auto bypass, Centralized monitoring, Touch screen HMI				
Dimensions					
Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
DBW-10KVA	280×700×1270	DBW-20KVA	280×700×1270	DBW-30KVA	280×700×1270
DBW-50KVA	280×700×1270	DBW-80KVA	280×700×1270	DBW-100KVA	280×700×1270
SBW-15KVA	280×700×1270	SBW-180KVA	320×850×1470	SBW-800KVA	600×1300×2000
SBW-20KVA	280×700×1270	SBW-200KVA	320×850×1470	SBW-1000KVA	800×1800×1900
SBW-30KVA	280×700×1270	SBW-250KVA	400×1000×1670	SBW-1200KVA	1000×1800×1900
SBW-50KVA	280×700×1270	SBW-300KVA	400×1000×1670	SBW-1500KVA	1000×1800×1900
SBW-80KVA	280×700×1270	SBW-350KVA	500×1150×1870	SBW-2000KVA	1000×1800×1900 2*Case
SBW-100KVA	320×850×1470	SBW-400KVA	500×1150×1870	SBW-3000KVA	1000×1800×1900 2*Case
SBW-120KVA	320×850×1470	SBW-500KVA	600×1300×2000	SBW-4000KVA	1000×1800×1900 3*Case
SBW-150KVA	320×850×1470	SBW-600KVA	600×1300×2000	SBW-5000KVA	1000×1800×1900 4*Case

Wide Range Voltage Stabilizer
D Z W / S Z W Series
Single Phase / Three Phase
1 0 - 1 0 0 K V A



Cope with input voltage down to 90V, and output voltage regulated to rated 220V without de-rated input power a lot



Features & Benefits

- Extremely wide input voltage range: 90-270Vac (L-N), or can be customized
- Maintenance free roller type carbon brush
- Unique compact dimension
- Independent phase regulation
- High efficiency, up to 98%(full load)
- High Mean Time Between Failure(MTBF)
- Completed protections

Applications

- Telecom & Broadcast
- Industrial
- Commercial
- Medical & Scientific

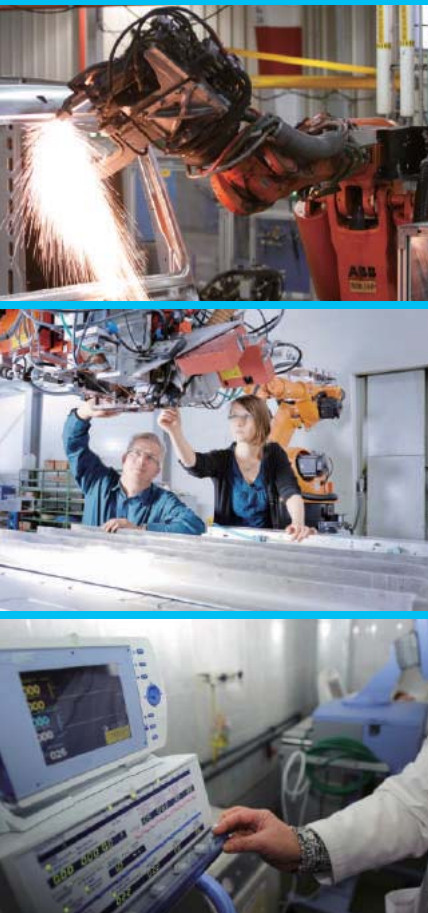
Technical Specifications

Input					
Input voltage		220/380V, 230/400V, 240/415V system, other voltage system can be customized			
Input Range		90-270V (other input range can be customized)			
Input Frequency		50/60Hz			
Output					
Output Voltage		220/380V, 230/400V, 240/415V system, other voltage system can be customized			
Output Accuracy		Selectable: ±1% to ±5%, Factory preset: ±2%			
Waveform Distortion		Nil			
Power Factor		0.8~1			
Efficiency		≥98%(full load)			
Overload Capacity		200% Over Load 10secs, 150% Over Load 60secs, 120% Over Load 10 mins			
General					
Working Principle		Servo motor, microprocessor controlled, full automatic			
Insulation Class of Transformer		H class			
Method of Voltage Regulation		Three phase independent regulation			
Indicators		Voltage, Current, Power, Parameters setting, Failure information			
Cooling		Natural/forced air			
Protection Level		IP21(indoor), IP54(outdoor) on request			
Electrical Safety		CE equivalent			
Environmental					
Working Temperature		-20 °C to +50 °C			
Altitude		<1000m			
Relative Humidity		<90%			
Noise		<55dB			
Functions					
Normal Functions		Malfunction protection, Short-circuit protection, Lack of phase protection, Wrong sequence protection, Over voltage protection, Under voltage protection, Overload protection, Safe start, Manual bypass, Indicating alarms, Security password, RS232/485 interface			
Optional Functions		Isolation transformer, Surge protector(SPD), GPRS or Wifi communication, Auto bypass, Centralized monitoring, Touch screen HMI			
Dimensions					
Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
DZW-10KVA	230×480×740	DZW-15KVA	230×480×740	DZW-20KVA	230×480×740
DZW-30KVA	230×480×740	SZW-10KVA	280×560×750	SZW-15KVA	280×560×750
SZW-20KVA	280×560×750	SZW-30KVA	280×560×750	SZW-50KVA	280×560×750
SZW-60KVA	320×700×950	SZW-80KVA	320×700×950	SZW-100KVA	320×700×950

Static Voltage Stabilizer
 ZDBW/ZSBW Series
 Single Phase / Three Phase
 10 - 2500 KVA



Adjust to the right voltage value
 required by industrial devices
 which develop rapidly and become
 more sensitive



Features & Benefits

- User-friendly HMI, large-screen LCD display with all parameters
- Maintenance-free, no mechanical error and no wear of carbon brush
- Independent phase regulation
- Fastest regulator: adjust the voltage to the output voltage rating of 40ms
- Auto bypass
- Completed protections
- Capable of overload, suitable for resistive, capacitive, inductive and mixed loads

**Static Voltage Stabilizer
ZDBW/ZSBW Series
Single Phase / Three Phase
10 - 2500 KVA**

Since 1979

Technical Specifications

Input					
Input voltage	220/380V, 230/400V, 240/415V system, other voltage system can be customized				
Input Range	15% (±20% ~ ±50% can be customized)				
Input Frequency	50/60Hz				
Output					
Output Voltage	220/380V, 230/400V, 240/415V system, other voltage system can be customized				
Output Accuracy	Selectable: ±0.5% to ±2%				
Waveform Distortion	Nil				
Power Factor	0.8~1				
Efficiency	≥98%(full load)				
Overload Capacity	150% Over Load 10 seconds				
General					
Working Principle	Silicon Controlled Rectifier(SCR), full automatic				
Insulation Class of Transformer	H class				
Method of Voltage Regulation	Three phase independent regulation				
Indicators	Voltage, Current, Power, Parameters setting				
Cooling	Natural/forced air				
Protection Level	IP21(indoor), IP54(outdoor) on request				
Electrical Safety	CE equivalent				
Environmental					
Working Temperature	-20 °C to +50 °C				
Altitude	<1000m				
Relative Humidity	<90%				
Noise	<45dB				
Functions					
Normal Functions	Malfunction protection, Short-circuit protection, Lack of phase protection, Wrong sequence protection, Over voltage protection, Under voltage protection, Overload protection, Safe start, Auto bypass, Indicating alarms, Security password, RS232/485 interface				
Optional Functions	Isolation transformer, Surge protector(SPD), Manual bypass				
Dimensions					
Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
ZSBW-10KVA	350×600×750	ZSBW-15KVA	350×600×750	ZSBW-20KVA	350×600×750
ZSBW-30KVA	350×600×750	ZSBW-45KVA	390×650×870	ZSBW-60KVA	390×650×870
ZSBW-75KVA	460×650×1200	ZSBW-100KVA	460×650×1200	ZSBW-150KVA	700×700×1200
ZSBW-200KVA	700×700×1200	ZSBW-250KVA	1100×800×2100	ZSBW-320KVA	1100×800×2100
ZSBW-400KVA	1100×800×2100	ZSBW-500KVA	1100×800×2100	ZSBW-600KVA	1100×800×2100
ZSBW-800KVA	1800×1000×2100	ZSBW-1000KVA	1800×1000×2100	ZSBW-1200KVA	1800×1000×2100
ZSBW-1600KVA	1800×1000×2100	ZSBW-2000KVA	1800×1000×2100	ZSBW-2500KVA	1800×1000×2100



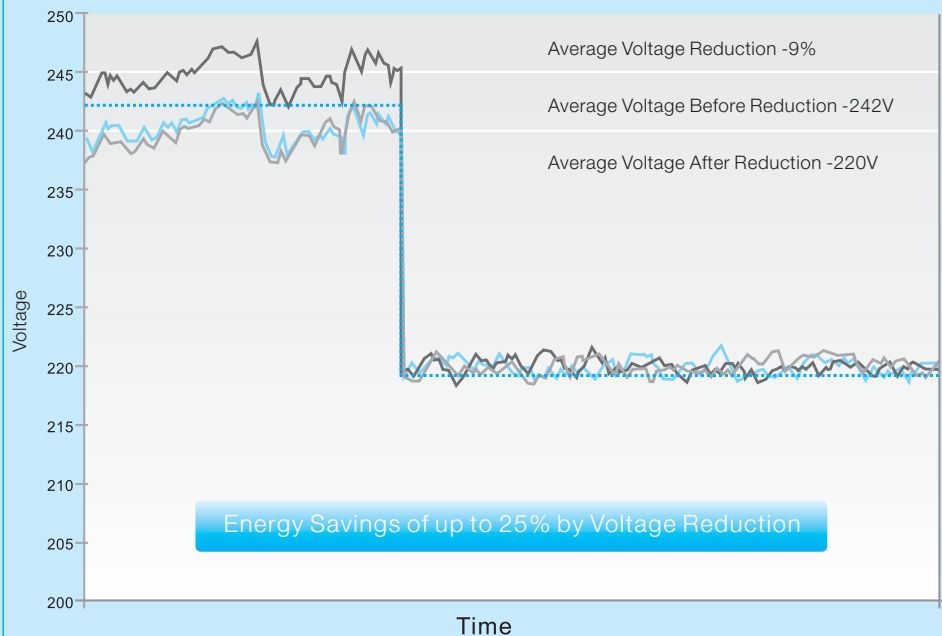
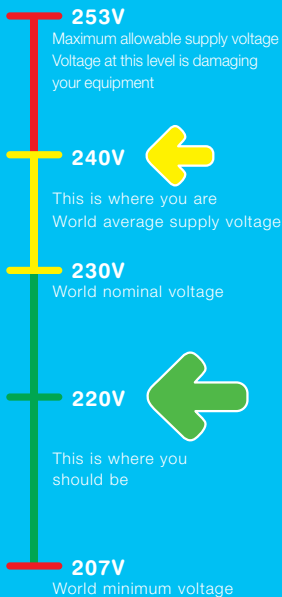
Voltage Optimiser
S J D Series
 Single Phase / Three Phase
10 - 2500 KVA

**Optimize energy usage, lowering
 electricity and maintenance costs,
 extending electrical equipment's
 lifetime**

Features & Benefits

- Energy saving up to 25%
- Fast Return of Investment(ROI)
- High efficiency
- Prolong equipments life span
- Real time energy monitoring with GPRS or WIFI
- Protect equipments against failures
- No-break bypass allowing no power interruption

World Voltages



Voltage Optimiser
S J D Series
 Single Phase / Three Phase
10 - 2500 KVA

Since 1979

Technical Specifications

Input					
Input voltage	220/380V, 230/400V, 240/415V system, other voltage system can be customized				
Input Range	± 15% (other input range can be customized)				
Input Frequency	50/60Hz				
Output					
Output Voltage	220/380V system, other voltage system can be customized				
Output Accuracy	Selectable: ± 1% to ± 5%, Factory preset: ± 2%				
Waveform Distortion	Nil				
Power Factor	0.8~1				
Efficiency	≥98%(full load)				
Overload Capacity	200% Over Load 10secs, 150% Over Load 60secs, 120% Over Load 10 mins				
General					
Working Principle	Servo motor, microprocessor controlled, full automatic				
Insulation Class of Transformer	H class				
Method of Voltage Regulation	Three phase independent regulation				
Indicators	Voltage, Current, Power, Parameters setting, Failure information				
Cooling	Natural/forced air				
Protection Level	IP21(indoor), IP54(outdoor) on request				
Electrical Safety	CE equivalent				
Environmental					
Working Temperature	-20 °C to +50 °C				
Altitude	<1000m				
Relative Humidity	<90%				
Noise	<55dB				
Functions					
Normal Functions	Completed protections, GPRS or Wifi communication, Auto bypass, Safe start, Manual bypass, Indicating alarms, Security password, RS232/485 interface				
Dimensions					
Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
SJD-15KVA	280×700×1270	SJD-20KVA	280×700×1270	SJD-30KVA	280×700×1270
SJD-50KVA	280×700×1270	SJD-80KVA	280×700×1370	SJD-100KVA	320×850×1470
SJD-120KVA	320×850×1470	SJD-150KVA	320×850×1470	SJD-180KVA	320×850×1470
SJD-200KVA	320×850×1470	SJD-250KVA	400×1000×1670	SJD-300KVA	400×1000×1670
SJD-350KVA	500×1150×1870	SJD-400KVA	500×1150×1870	SJD-500KVA	600×1300×2000
SJD-600KVA	600×1300×2000	SJD-800KVA	600×1300×2000	SJD-1000KVA	800×1800×1800
SJD-1200KVA	1000×1800×1900	SJD-1500KVA	1000×1800×1900	SJD-2000KVA	1000×1800×1900 (Two cabinets)
SJD-3000KVA	1000×1800×1900 (Two cabinets)	SJD-4000KVA	1000×1800×1900 (Three cabinets)	SJD-5000KVA	1000×1800×1900 (Four cabinets)

**Reduce electricity cost sustainably
without affecting the performance
and reliability of the equipment**



Features & Benefits

- Energy saving up to 50%
- Fast Return of Investment(ROI)
- High efficiency
- Prolong equipments life span
- Individual adaptation voltage level by programming of time curves
- Automatic bypass switch protects against lighting outages
- Different types of lamps can operate together in one system

Technical Specifications

Input					
Input voltage		230/400V system, other voltage system can be customized			
Input Range		±10% (other ranges can be customized)			
Input Frequency		50/60Hz			
Output					
Output Voltage		Maximum nominal voltage reduction of 17%			
Output Adjustment		4 steps of -5%, -8%, -13%, -17%(other can be customized)			
Efficiency		≥99%(full load)			
General					
Cooling		Natural/forced air			
Protection Level		IP21(indoor), IP54(outdoor) on request			
Electrical Safety		CE equivalent			
Environmental					
Working Temperature		-20 °C to +50 °C			
Altitude		<1000m			
Relative Humidity		<90%			
Noise		<55dB			
Normal Functions		Complete protections, Safe start, Auto bypass, Indicating alarms			
Dimensions					
Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
DZG-20KVA	300×600×700	DZG-30KVA	300×600×700	DZG-50KVA	300×600×700
DZG-70KVA	300×600×700	DZG-100KVA	300×600×700	DZG-125KVA	400×800×800
DZG-150KVA	400×800×800	DZG-175KVA	400×800×800	DZG-200KVA	400×800×800
DZG-225KVA	400×800×800	DZG-250KVA	500×900×1000	DZG-300KVA	500×900×1000
DZG-350KVA	500×900×1000	DZG-400KVA	500×900×1000	DZG-500KVA	500×900×1000
DZG-600KVA	500×900×1000	DZG-800KVA	600×1000×1200	DZG-1000KVA	600×1000×1200

Ideal choice for protecting household and office electric appliances with high reliability and cost-effective



Features & Benefits

- Excellent power supply with full protection
- Wall mounted installation, effective utilization of space
- High precision, $\leq 5\%$
- Aesthetic appearance

Applications

- Home appliances
- Testing equipments
- Medical instruments
- Office equipment
- Science research instruments
- Lighting system

Technical Specifications

Model	JAJA						
Capacity(KVA)	1KVA	2KVA	3KVA	5KVA	7.5KVA	10KVA	15KVA
Input Voltage	Single phase 120-270V						
Output Voltage	Single phase 220V $\pm 5\%$						
Efficiency	$\geq 98\%$ on full load						
Frequency	50/60Hz						
Over Voltage Protection	Output voltage $\geq 245V$						
Under Voltage Protection	Output voltage $\leq 180V$						
Start Delay Protection	6s						
Dimension(WxHxD)mm	225x330x150		240x410x190		280x480x240		
Weight(kg)	12	15	19	27	38	42	50

Ideal maintenance free solutions for loads that can suffer electrical noise, local transient, mains power sags, surges and brownouts



Features & Benefits

- Galvanic isolation
- High common and normal mode noise attenuation
- Sag, surge and brownout protection
- Sine wave output (regardless of input waveform)
- Low installation heat output and running costs (maintenance free)
- High Mean Time Between Failure (MTBF)
- Easy to install

Applications

- Process control
- Automation
- Computer system
- Broadcasting
- Medical
- Air, rail, ship

Technical Specifications

Model	TJA							
Capacity(KVA)	0.5KVA	1KVA	2KVA	3KVA	5KVA	7.5KVA	10KVA	15KVA
Input Voltage	Single phase 220±30%(154-286V)							
Output Voltage	Single phase 220V±1-3%							
Efficiency	≥90% on full load							
Frequency	50/60Hz							
Dimension(WxHxD)mm	140x210x360	220x320x380	320x680x450		320x710x520	400x820x560	460x820x600	
Weight(kg)	17	36	70	92	136	220	270	320

Provides a continuously adjustable output voltage for inputs from 220 to 600V



Features & Benefits

- Single and three phase configurations
- Patented auto variable transformer system
- Unique roller carbon brush design
- Reliable and quiet servo motor
- Stepless regulation from 0-100%
- Step-up available to 15% rated input voltage
- Short time overload capability
- Negligible output distortion



Applications

- Scientific research
- Telecom and testing equipment
- Industrial ancillary facilities
- Meet practically any need for varying voltage
- Provide dependable and precise regulation for many testing applications

Main Technical Parameters

Model	TDGZ single phase	TSGZ three phase
Input Voltage	220V	380V
Output Voltage	0-250V	0-430V
Capacity	15-150kVA	25-200kVA
Frequency	50/60Hz	

Used as isolation transformers or to adjust the voltage level in the LV distribution grid

Dry Type Transformers
D G / S G Series
 Single Phase / Three Phase
1 - 1 0 0 0 K V A



Features & Benefits

- Low losses
- Low weight and compact dimensions
- Non-flammable and non-explosive
- IP21 enclosures (optional)
- With air cooling based on natural convection

Type

- Isolation Transformers
- Auto Transformers
- Harmonic Mitigating Transformers
- K-Factor Transformers
- Variable Transformers
- Buch & Boost Transformers

Ratings

Number of phases	3 or 1
Rated power	1-1000KVA(others on request)
Primary/secondary voltage	220,230,380,400,600,690V(others onrequest)
Frequency	50,60,400Hz

Standards

All units are built in accordance with IEC and EN

Applications

- Wind or solar
- Transportation (ie, marine or railways)
- Uninterruptible power supply (UPS)
- Chemical, oil and gas industry
- Motor drive
- Converters

The specifications of the transformers as input and output, capacity,voltage, current, frequency (40~650Hz). temperature rise, insulation class and noise and so on can be custom designerd.

Play an important role to control electricity increases constantly, depending on their duty in the electrical circuit



Features & Benefits

- The iron core is made of top quality silicon sheet
- Special process guarantees the noise level less than 55DB
- Winding and wire are insulated by NOMEX(C insulation level)
- High mechanical strength and high ability to resist short circuit shock
- Moisture proof, dust proof, pollution proof, fireproof, non-electromagnetic pollution
- Maintenance free and easy reliable installation



Type

- Smoothing Reactors
- Current Limiting Reactors
- Harmonic Filter Reactors
- Series Reactors
- Starting Reactors
- Input/Output Reactors

Applications

- Power electronics
- Reactive power compensation
- Harmonic filtering
- Motor starting
- Short-circuit limiting
- Neutral grounding

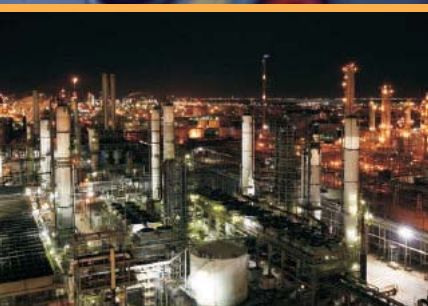
Ratings

Power ratings	On type and technology
Voltages	Below 1500V(others on request)
Insulation	Class H or C
Main use	General industries, utilities and power electronics

Frequency Converter
A P S Series
 Single Phase / Three Phase
0 . 5 - 2 0 0 K V A



Allows to precisely emulate all the
 numerous utility mains voltages
 and frequencies deployed throughout
 the world



Features & Benefits

- Programmable key lock setting output frequency
- Self test at power on
- Galvanic isolation, no harmonic distortion
- PWM technology enhances compact size, light weight
- IGBT module generates high efficiency, low noise & max. reliability
- Powerful overload capability
- Perfect protection when abnormal condition occurred
- Suitable for use with resistive, capacitive, inductive and non-linear loads

Applications

- Test laboratory & research centre
- Electrical & electronic equipment testing
- Production & process control systems
- Airport grounding equipment
- Military diagnostic systems
- Communication, avionics & marine equipment

Frequency Converter
A P S Series
Single Phase / Three Phase
0 . 5 - 2 0 0 K V A

Since 1979

Technical Specifications

Phase	Single					Three						
Models	0.5-45KVA					3KVA-200KVA						
Type	IGBT/Pulse Width Modulation Type											
Input												
Input Voltage	1Phase 2Wire:110V(2 to 5KVA)/220V/230V/240V ±10%											
	3Phase 4Wire:Wye Type 190/110;200/115;208/120;220/128;230/132;240/139V ±10%											
	3Phase 4Wire:Wye Type 380/220;400/230;415/240;440/254;460/265;480/277V ±10%											
	3Phase 3Wire:Delta Type 220;230;240;380;400;415;440V ±10%											
Input Frequency	47 - 63Hz or 400Hz ±5%											
Output												
Output Voltage	110V Setting(Low Range): 0-150V					(Option: 0-600V)						
	220V Setting(High Range): 0-300V											
Output Accuracy	≤ ±1%											
Frequency	40.0 Hz to 499.9 Hz(Programmable)											
Frequency Stability	≤ ±0.01%											
Distortion(THD)	Pure Sine Wave, ±2%											
Display	4 LED Digital display for frequency, voltage, current and power											
Protections	Electronic Circuit/Circuit Breaker for Overload, Over Temperature, Instant Cut off. Short Circuit											
Environmental												
Temperature	0°C to +40 °C											
Altitude	<1000m											
Relative Humidity	<90%											
Noise	<55dB											
Single Phase Specifications												
Model&capacity	500VA	1KVA	2KVA	3KVA	5KVA	8KVA	10KVA	15KVA	20KVA	30KVA	45KVA	
Dimension(WxDxH)mm	355x370x138		350x530x675				350x550x855			450x630x1000		
Three Phase Specifications												
Model&capacity	3KVA	6KVA	10KVA	15KVA	20KVA	30KVA	45KVA	60KVA	75kVA	100KVA	120KVA	150KVA
Dimension(WxDxH)mm	700x480x1370					800x560x1660			1000x800x1800		1200x800x1850	

Online UPS
NP Series
Three Phase
10-400KVA



Highly available, redundant,
and scalable double-conversion
on-line power protection



Features & Benefits

- High reliability configuration
- N+X parallel redundancy
- Wide input range
- Digital Control
- Stable operation
- Comprehensive protection
- User-friendly network management

Applications

- Finance, Telecommunication, Insurance
- Transportation, Tax, Military, Stock, Energy
- Education, Government, Manufacture, Enterprise
- Computer, Precision Instrument etc

Online UPS
NP Series
Three Phase
10-400KVA

Since 1979

Technical Specifications

Models	NP3310	NP3315	NP3320	NP3330	NP3340	NP3360	NP3380	NP33100	NP33120	NP33160	NP33200	NP33300	NP33400
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	300KVA	400KVA
Input													
Input Voltage	380VAC +/- 20% (3 phase)												
Input Frequency	40Hz ~ 65Hz (auto sensing)												
Input Power Factor	>0.95												
Output													
Output Voltage	380VAC (3 phase + neutral)												
Output Frequency	Input frequency synchronized												
Output Power Factor	0.8												
THD	<1% (linear load), <3% (non-linear load)												
Efficiency	95%(normal); 98%(eco)												
Crest Factor	3 : 1												
Overload Ability	60' / 10' / 1' (110% / 125% / 150%)												
Transfer Time	0ms												
Battery Voltage	192VDC (optional 240VDC / 384VDC / 480VDC)												
Display	Touch screen (optional LED)												
Communications	RS232 / RS485 / SNMP Card / Dry Contact												
Safety Standard	EN 50091-1 / GB4943, EMC EN 50091-2 / GB7260.2, GB/T 17626.2~5												
Environmental													
Temperature	-10℃ ~ 50℃												
Relative Humidity	95 %(Non-Condensing)												
Cooling	Forceful Ventilation(Speed Shift Blower)												
Altitude	Rated Power at 1000m(-1% Rated Power per 100m, 4000m Max)												
Noise	60 ~ 65dB												
Enclosure Level	IP22												
Dimension(mm)	390x725x1220			555x725x1220		800x745x1400		800x800x1800		1100x800x1800		1400x1100x2000	
Net Weight(KG)	200	220	260	300	360	480	550	900	1020	1220	1550	2500	2850



Harmonic Filter
APF Series
Three Phase
25 - 300 A

Provides the simplest and most effective means to mitigate harmonics, and improve equipment operating life



Features & Benefits

- Voltage ratings from 208 to 480vac
- 25 to 300 amp ratings
- Dynamically cancels 3rd to 50th orders harmonics
- Graphics display and analyzer
- Individual or parallel systems for added capacity
- Immediately improves electrical system efficiency
- Reduces operations and maintenance costs
- Quick and easy installation with virtually no downtime
- No need for complex site analysis

Applications

- Computers and Peripherals
- Variable Frequency Drives (VFDs)
- Uninterruptible Power Supplies(UPS)
- Frequency Converters
- DC Power Systems/Chargers

Harmonic Filter
APF Series
Three Phase
25 - 300 A

Since 1979

Technical Specifications

Models					
Modular Rack	30A	50A	75A	100A	150A
Dimensions	680x200x530(WxHxD)mm				
Wall Mout	30A	50A	75A	100A	150A
Dimensions	730x208x576(WxHxD)mm				
Standalone	100A	150A	300A		
Dimensions	800x800x2200(WxHxD)mm				
Parallel Number	6				
Input					
Working voltage	400V/690V(-20%~+15%)				
Frequency	50Hz/60Hz(-10%~+10%)				
Current Transformer	100:5~10000:5				
Function					
Harmonic Compensation	2nd - 50th orders				
Harmonic Filtering Rate	>97%				
Reactive Power Compensation	-1~+1 adjustable				
Three Phase Unbalance Compensation	100% unbalance Compensation				
Communication					
Communication Mode	RS232, 485, Modbus Port, TCP/IP optional				
Communication Interface	RS485				
Tech Index					
Response Time	<10ms				
Active Power Loss	<2.5%				
Heat Dissipation Method	Intelligent air cooling				
Noise	<60dB				
Protection Function	Overvoltage, undervoltage, overcurrent,overheating, short circuit protectionand so on over 20 protections				
Mechanics					
Weight	25kg (<=75A/50kvar)		25kg (<=75A/50kvar)		
Color	Fine orange stripes, RAL 7035				
Environmernt					
Working Temperature	-10 °C to +45 °C				
Altitude	<1500 meters (100 meters per increase capacity decreased by 1%)				
Relative Humidity	<99%				
Protection Level	IP20 (higher protection level can be customized)				

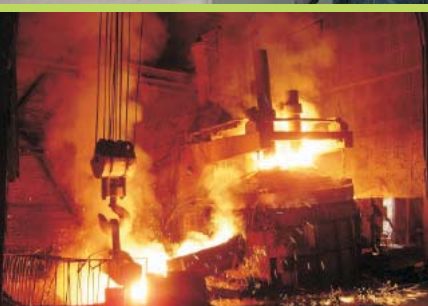
Lower your utility bills starting on the day the equipment is installed, fast and easily, minimizing downtime

Power Factor Correction
P F C Series
T h r e e P h a s e
1 0 0 - 2 0 0 0 K V A R



Features & Benefits

- Voltage rating from 240 to 600V
- Harmonic filtering for optimum power quality
- Lower utility bills
- Reduced operating costs
- Efficient use of utility power
- Quick return of investment(ROI)
- Easy to install
- Minimal Maintenance requirements



Applications

- Automotive
- Food & Beverages
- Minerals & Metals
- Water Treatment
- Oil & Gas
- Industrial Manufacturing

Ratings

Voltages	Customized up to 1500V
Power Factor Compensation	≥ 0.95
Energy Saving	5-30%
Harmonic Filtering	5,7,11,13th harmonics over 70%, THD<5%

Effectively eliminate 3rd harmonics and reduce input and output neutral current to 0 A



Features & Benefits

- Diverts the flow of harmonic current away from neutral
- Reduce high neutral current
- Reduce loss and operating temperature
- Save energy by reducing harmonic losses
- Prevent hidden dangers caused by harmonics
- East installation, high reliable and maintenance free

Applications

- Big commercial LED monitor, LED lights
- Commercial and office buildings
- Data center, shopping malls
- Industrial factories
- Any places that have high neutral current issues

Models & Specifications

Model	Max Working Current	Working Voltage	Efficiency	Insulation Class	Insulation Resistance
DFC-CW-30A	30A	380V \pm 30%, or can be custom designed	100% reduce neutral line current to 0A, 3rd harmonic reduction $\geq 90\%$	Calss H or C	$\geq 20M\Omega$
DFC-CW-60A	60A				
DFC-CW-90A	90A				
DFC-CW-150A	150A				
DFC-CW-200A	200A				
DFC-CW-300A	300A				
DFC-CW-400A	400A				
DFC-CW-500A	500A				
DFC-CW-600A	600A				
DFC-CW-800A	800A				
DFC-CW-1000A	1000A				

Surge Protector Device (SPD)
DFL-D / DFL-S Series
Single Phase / Three Phase
15 - 100 KA

Prevent critical electrical devices from high danger of loss when lightning occurs in single phase and three phase systems



Features & Benefits

- High rated discharge capacity
- Fast response time: 25 ns
- Easy installation
- LED display: Indicates operation status
- Repeat useable: Can repeat normally work after frequent lightning
- Maintenance-free: Satisfy the demand of remote unmanned operated station
- Long life: Operation life up to 20 years

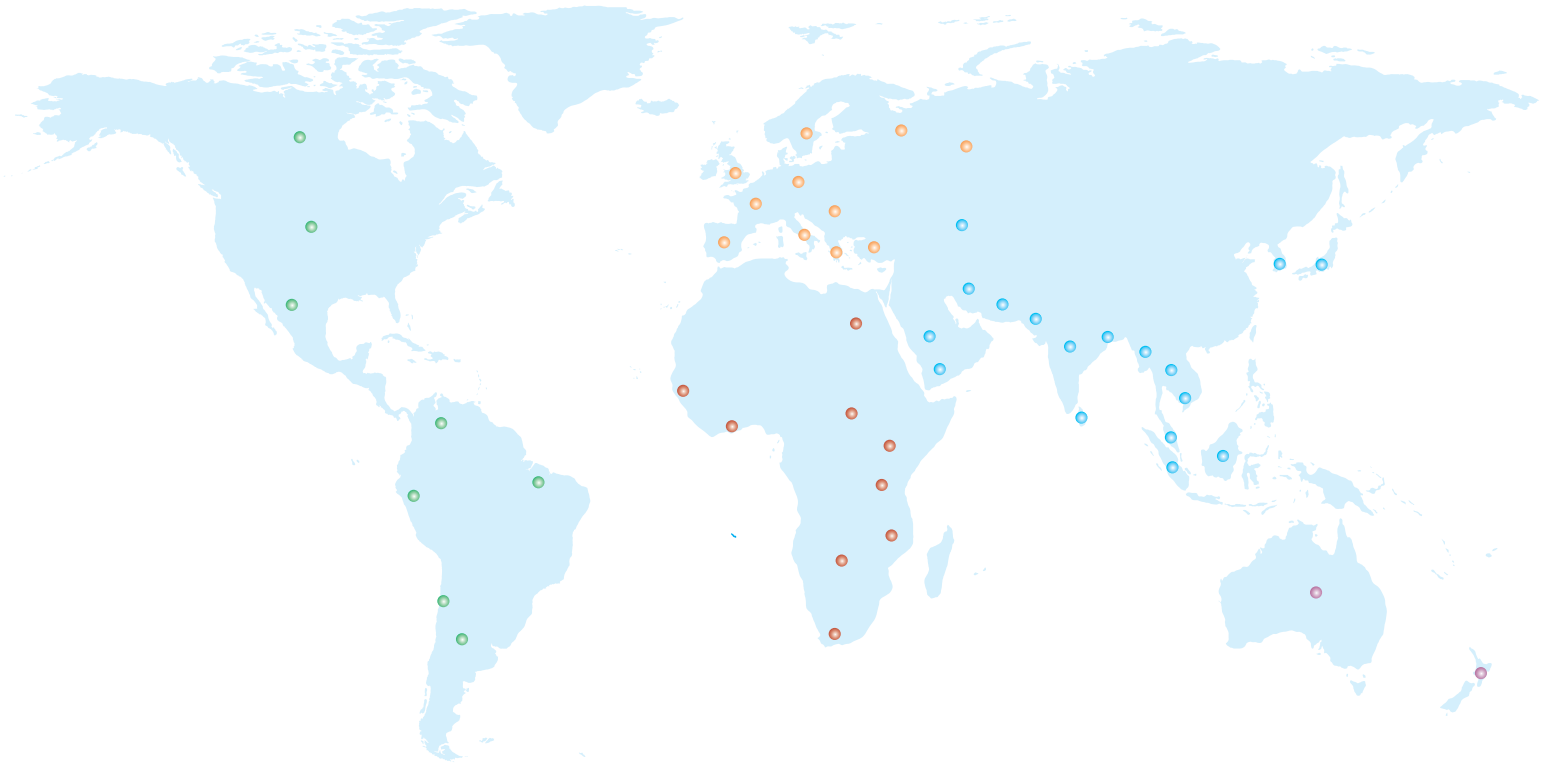
Applications

- Sensitive electronic equipment
- Data center
- Telecom center
- UPS room
- Intelligent mansion
- Medical institute

Models & Specifications

Model	Working Voltage	Rated Surge Current	Max Surge Current	Size(mm)	Weight
DFL1-D	220V	40KA	80KA	280X160X70	3kg
DFL2-D	220V	20KA	40KA	250X150X55	1.8kg
DFL3-D	220V	15KA	25KA	200X110X40	1.2kg
DFL1-S	380V	40KA	80KA	350X240X95	8kg
DFL2-S	380V	20KA	40KA	250X160X85	4kg
DFL3-S	380V	15KA	25KA	225X130X80	3kg

■ Notes



Energy Power Save CO.,LTD.

442/2 Chan Road, Thungwatdon Sathon Bangkok Thailand 10120

Office : +6602 673-3034-5, 02 307-8622-3, Fax : 02 673-1263 Mobile : +66 02 089 006 0906

www.siamenergysaving.com

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