









ELECTRONICS CONTACTLESS AVR SERVO CONTROLLED AVR PATENTED TECHNOLOGY POWER RANGE 1-2000KVA HEAVY DUTY CLASS (INDUSTRIAL GRADE)

















## HEAVY DUTY VOLTAGE STABILIZER

YOUR POWER STABILITY IS OUR BREATH





















# NCX Series (Contactless)

# HEAVY DUTY CLASS VOLTAGE STABILIZER

## 10 to 2000 KVA (3Ph in / 3Ph Out)







#### **CONTACTLESS TECHNOLOGY & MAINTENANCE FREE**

Arakawa NCX series electronic voltage regulator consists of compensation circuit, voltage regulating circuit, control circuit, input sampling circuit, output sampling circuit, protection circuit and bypass circuit.

It has a simple structure which has no servo, chain, and gear transmission sistem. Its mechanical fault is zero so it is maintenance-free for a long time.

The main circuit, which adopts multiple compensation transformer combination, can achieve stable voltage by contactless switch of thyristor and completely avoid the maintenance of brush wear as well as high frequency interference cause by brush contact spark. Therefore, it has long service life more than 100,000 MTBF hours.

#### **EXCELLENT VOLTAGE STABILITY**

Arakawa has been researching and developing Power Stabilizer technologies for critical applications, worldwide and for many years. Arakawa solutions are flexible, offering the highest levels of availability, whilst achieving low total cost of ownership.

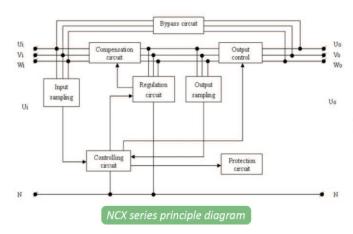
Arakawa Power Stabilizers are designed for ease of installation and maintenance, with simple but secure wiring system.

Excellent Voltage Stability will be our assurance, guaranteed by Arakawa's advanced R&D on voltage stabilizing technology. NCX Series technology are extra fast response less than 40ms provide you excellent voltage stability which you can't get from common type stabilizer.

#### PERFORMANCE BY TECHNOLOGY

Arakawa NCX series electronic voltage regulator are suitable for a wide range of applications such as IT servers, telecommunications, commercial business, light industry, heavy industry, medical, laboratory, etc.

NCX series adopt power electronics technology and semiconductor (SCR) in order to assuring that power device can be accurately controlled and reliably operated. The semiconductor device has lot of advantages such as high efficiency, well control performance, small size, light weight and reliability. Todays main direction of big power voltage stabilizer is to upgrade the voltage stabilizer with power electronics technology.



NCX series voltage stabilizer is combined with:

- Compensation Circuit
- · Voltage Regulation Circuit
- Controllling Circuit
- Input Sampling Circuit
- Output Sampling Circuit
- · Output Controlling Circuit
- Protection Circuit
- Bypass Circuit

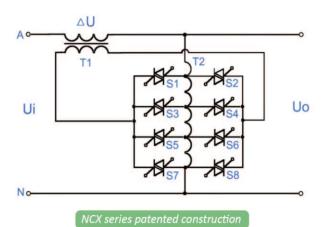
The working process is when input voltage or load changes, obtains feedback voltage from every sampling circuit, compares and judges with standard voltage, then controlling circuit outputs controlling signal, controls, the thyristor in regulation circuit to conduct, makes the compensation circuit generate different polar and voltages to compensate, it realizes outputting voltage reliably.

At the same time, the controlling circuit controls the protection circuit and output controlling circuit to make corresponding moves.



#### PATENTED CONSTRUCTION

NCX Series construction switches the tapping of autotransformer by controlling the on and off of doubledirection-SCR, thereby changes the compensated voltage and polar of compensation transformer in order to output voltage reliably.



#### ADVANTAGES

NCX series are the highest level of voltage stabilizer technology available today. NCX series is the result of more than 10 years research to reduce the disadvantages of the traditional stabilizer (servo type, magnetism compensated type, oil immersed type, parameter type, etc). By applying NCX series the advantages is :

- Extremely fast regulation (Automatic)
   It just need 40ms to stable the output voltage which servo type stabilizer need 7 second to complete the regulation).
- Contactless Technology
   The regulation are without carbon brush friction and servo motor operation. 80% faults of the carbon brush stabilizer are resulted in by the servomotor drive and carbon brush).
- Maintenance Free
   No regular maintenance needed. No consumables. It can run without maintenance for 100,000 MTBF hours.
- Three Separated Regulation
   It apply separated regulation for each phase and adaption to the three phase unbalance load. Traditional stabilizers adopt joined regulation that cause big power loss for compensation.
- Highest Compensation
   Highest compensation can reach ±50%. The highest compensation of traditional stabilizers just reach ±30%.
- Highest Efficiency
   The efficiency can reach 99%. The highest efficiency of traditional stabilizers are below 96%.
- High Quality Purified Power
  Regulation process without wave-distorsion and
  power-off which is applied to computer and precision
  electronic equipment.
- Safety
   With Lightning-Proof and wave-filter function
   depresses surge and filter harmonic waves.

## **DETAILS SPECIFICATION**



Models	Power (KVA)	Rated current (A)	Input (V)	Output (V)	Dimension (mm)	Weight (kg)	Cross sectional area of cables (mm²)
NCX-10	10	15				142	3×1.5+1×1.0
NCX-15	15	23			600*420*1280	157	3×4+1×2.5
NCX-20	20	30					J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
NCX-30	30	46			650*520*1380	200	3×10+1×6
NCX-50	50	76			030 320 1380	208	3×16+1×6
NCX-75	75	114			750*550*1700	340	3×35+1×10
NCX-100	100	152			730 330 1700	380	3×50+1×16
NCX-150	150	228	266-494 (Standard ±30% for 3 phase 380V)		900*700*1800	580	3×70+1×25
NCX-180	180	273		380 (standard)		620	3×95+1×35
NCX-225	225	342			1100*850*2000	880	3×150+1×35
NCX-320	320	486	Customized	Another		930	
NCX-400	400	608	from 10% to			1240	
NCX-500	500	760	50% voltage range	available	1200*1000*2200	1350	
NCX-600	600	912	range			1500	
NCX-800	800	1215			1000*1000*2200	1820	
NCX-1000	1000	1519			Double cabinets	1980	Copper bus bar connecting
NCX-1200	1200	1823			1200*1000*2200	2300	333
NCX-1400	1400	2127			Double cabinets	2600	
NCX-1600	1600	2430			1300*1000*2200	2750	
NCX-1800	1800	2735			1200*1000*2200 1100*1000*2200	2900	
NCX-2000	2000	3038			Three cabinets	3100	

## **GENERAL SPECIFICATION**

Number of phases	3	Humidity	≤ 90%
Frequency	50/60HZ	Altitude	<1000m
Noise	<50dB	Temperature Rise	Transformer winding < 80°C
Voltage accuracy	±1%(10-225KVA) ±2%(320-2000KVA)	Insulation Resistance	≥2ΜΩ
Efficiency	>98%	Protection	IP20
Response time	≤40ms	Color	RAL 7035
Output waveform	No harmonic distortion	Insulation Strength	Input and output AC voltage
Ambient Temperature	-15°C / +45°C	insulation strength	2000V/1min

<sup>\*\*</sup> The Specification are subject to change for improvement without prior notification.

\*\* Arakawa provide a very special voltage stabilizer requirements, please contact our authorized dealer.



















# PDX Series (Contact)

# HEAVY DUTY CLASS VOLTAGE STABILIZER

## 10 to 1800 KVA (3Ph in / 3Ph Out)









#### **CONTACT TYPE VOLTAGE STABILIZER**

Arakawa introduce PDX series which is the best contact type voltage stabilizer today. It's differ with common voltage stabilizer. It have many advantages as the result of long R&D. It has stepless voltage regulation, stable output, no wave distortion and no harmonic increment. PDX Series are the best choice for low total cost of ownership for heavy duty voltage stabilizer for all application.

Arakawa Power Stabilizers are designed for ease of installation and maintenance, with simple but secure wiring system.

#### Automatic voltage stabilizer

PDX compensation type automatic voltage stabilizer consists of compensation transformer, regulating transformer, transmission mechanism, electric brush contact system, as well as box and simulation control system. It has stepless voltage regulation, stable output, no wave distortion and no harmonic increment.

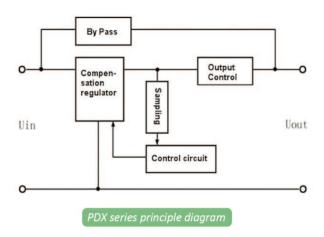
The product has 1% to 5% adjustable accuracy as well as  $\pm 10\%$  to  $\pm 50\%$  compensation range. Its capacity 10 to 1800 KVA respectively. In addition, its efficiency can reach more than 96%. The product is stable and reliable, and comes with all the power protection function.

Compensation and regulation products adopt a ring-shaped disk type under 30KVA and the three-phase which is all adjustable. In contrast, compensation transformer uses E type product while regulating product adopts winding cylinder type which is above 50KVA. The three-phase is adjusted uniformly and can also be adjusted based on users' requirements.

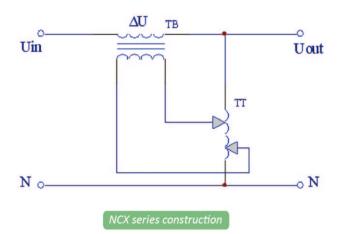
The transmission mechanism of the product is composed of servo motor and sprocket chain. Its power on mode consists of automatic mode and manual mode. When the output voltage is greater than the rated value, the voltage stabilizer can automatically bypass or cut off the output and then send out sound and light alarm.

#### Circuit structure and working principle

PDX automatic voltage stabilizer consists of compensation voltage circuit, control circuit, sampling circuit, output control and bypass circuit. Compensation voltage stabilizing circuit, control circuit and sampling circuit form automatic compensation voltage-stabilizing system.







#### ADVANTAGES

PDX Series are the best contact type voltage stabilizer. It resulted from more than 20 years solid experience in contact type voltage stabilizer continuous research and development as the result:

- Fast regulation (Automatic)
   Response time less than 1.5s to stable the output voltage which common type stabilizer need 7 second to complete the regulation).
- Over and under voltage protective
   When the output line voltage exceed peak or below
   lowest, several seconds delay, the machine automatic
   turn into "By Pass" mode, at the mean time, the value of
   input voltage equals to the output voltage, Buzzer alarm
   continuously and the yellow indicator is illuminated.
- Fault protection

When the regulator component generates failure, regulator will automatically switch to bypass or cut off the output and send out sound and light alarm. The value of input voltage equals to the output voltage, Buzzer alarm continuously and the yellow indicator is illuminated.

- Phase loss and phase sequence protection
   When the three-phase output power produces phase

   lack or fault phase, regulator will automatically cut off
   the output voltage
- Highest Compensation
   Highest compensation can reach ±50%. The highest
   compensation of traditional stabilizers just reach ±30%.
- High Efficiency
   The efficiency can reach more than 96%. The highest efficiency of traditional contact type stabilizers are below 96%.
- High Quality Purified Power
  Regulation process without wave-distorsion and
  power-off which is applied to computer and precision
  electronic equipment.
- Safety
  With Lightning-Proof and wave-filter function,
  depresses surge and filter harmonic waves.

## **DETAILS SPECIFICATION**



Models	Power (KVA)	Rated current (A)	Input (V)	Output (V)	Dimension (mm)	Weight (kg)	Cross sectional area of cables (mm²)	
PDX-10	10	15				130	3×1.5+1×1.0	
PDX-15	15	23			650*420*1050	160	3×4+1×2.5	
PDX-20	20	30				100	3.411.2.3	
PDX-30	30	46			700*480*1100	180	3×10+1×6	
PDX-50	50	76			700 480 1100	200	3×16+1×6	
PDX-75	75	114			900*750*1500	270	3×35+1×10	
PDX-100	100	152	304-456		300 730 1300	290	3×50+1×16	
PDX-150	150	228	380V) (stand			400	3×70+1×25	
PDX-180	180	273		380		580	3×95+1×35	
PDX-225	225	342		(standard)		720	3×150+1×35	
PDX-320	320	486		Customizad	Customized	Another	1200*900*2200	900
PDX-400	400	608	from 10%	voltage available	1200 300 2200	1140		
PDX-500	500	760	to 50%	avallable	Main:1200*1000*2200	1190		
PDX-600	600	912	voltage range		Side :800*1000*2200	1250		
PDX-800	800	1215	,8		Main:1200*1000*2200	1600		
PDX-1000	1000	1519			Side :1400*1000*2200	1800	Copper bus bar connecting	
PDX-1200	1200	1823			Main:1100*1000*2200 Side:1200*1000*2200 Side:1200*1000*2200	2200	connecting	
PDX-1400	1400	2127			Main:1350*1000*2200	2400		
PDX-1600	1600	2430			Side :1450*1000*2200	2600		
PDX-1800	1800	2735			Side :1450*1000*2200	2800		

## **GENERAL SPECIFICATION**

Number of phases	3	Humidity	≤90%
Frequency	50/60HZ	Altitude	<1000m
Noise	<65dB	Temperature Rise	Transformer winding < 80°C
Voltage accuracy	±(1-5)%, can be set	Insulation Resistance	≥2MΩ
Efficiency	>96%	Protection	IP20
Response time	≤500 ms	Color	RAL 7035
Output waveform	No harmonic distortion	Insulation Strength	Input and output AC voltage
Ambient Temperature	-15°C / +45°C	insulation Strength	2000V/1min

<sup>\*\*</sup> The Specification are subject to change for improvement without prior notification.

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#### PDR Full-Automatic Compensated 3Phase Series

#### **Feature**

This series large power voltage stabilizer is an energy-saving new product developed by our company by absorbing the advanced technology of Western Europe. It is provided with two systems of manual/automatic dual control, direct output and stabilizing output, with the functions of over/under-voltageprotection, delay and error protection etc, it is reliable and suitable for any load.

#### Application

It is widely used in the place with large electricity demands such as factories, post&Communication, schools, hotel etc. Acted as whole voltage-stabilizing or single voltage-stabilizing.

#### Specification



#### 20KVA/30KVA/50KVA/60KVA

Model	Rated Power	Output max	Package size	Qty per pkg
	(KVA)	current(A)	DxWxH(cm)	(unit)
PDR-20KVA	20	30	$87 \times 61 \times 145$	1
PDR-30KVA	30	45	$87 \times 61 \times 145$	1
PDR-50KVA	50	75	$87 \times 61 \times 145$	1
PDR-60KVA	60	90	$87 \times 61 \times 145$	1
Input voltage	Phase voltage 22	20V±20%,wire voltage	380V±20% or	
	Phase voltage 22	20V±30%,wire voltage	380V±30%(Optional)	
Output voltage	Phase voltage 22	OV, wire voltage 380V		
Accuracy of voltage	±2-5%(adjustab	le)		
Frequency	50Hz/60Hz			
Protection	Over voltage, ove	r current, phase failue	,phase sequence,mach	ine fault indication
Efficiency	>95%	distribution description of the	Abyer and the second second second second	
Response time	≤1.5S			

#### 80KVA/100KVA/120KVA



Model	Rated Power	Output max	Package size	Qty per pkg	
	(KVA)	current(A)	DxWxH(cm)	(unit)	
PDR-80KVA	80	120	$92 \times 71 \times 163$	1	
PDR-100KVA	100	150	$92 \times 71 \times 163$	1	
PDR-120KVA	120	180	$92 \times 71 \times 163$	1	
Input voltage	Phase voltage 22	0V±20%,wire voltage	380V±20% or		
	Phase voltage 22	0V±30%,wire voltage	380V±30%(Optional)		
Output voltage	Phase voltage 220V, wire voltage 380V				
Accuracy of voltage	±2-5%(adjustable)				
Frequency	50Hz/60Hz				
Protection	Over voltage, over current, phase failur, phase fault indication				
Efficiency	>95%				
Response time	≤1.5S				

#### 150KVA/180KVA/200KVA



Model	Pated Power	Output max	Package size	Qty per pkg		
	(KVA)	current(A)	DxWxH(cm)	(unit)		
PDR-150KVA	150	225	$106 \times 78 \times 176$	1		
PDR-180KVA	180	270	$106 \times 78 \times 176$	1		
PDR-200KVA	200	300	$106 \times 78 \times 176$	1		
Input voltage	Phase voltage220	0V±20%,wie voltage 3	80V±20% or			
	Phase voltage 220V±30%, wire voltage 380V±30% (Optional)					
output voltage	Phase voltage 22	0V,wire voltage 380V				
Accuracy of voltage	±2-5%(adjustable)					
Frequency	50Hz/60Hz					
Protection	Over voltage, over current, phase failure, phase sequence, machine fault indication					
Efficiency	>95%					
Response time	≤1.5S					



## PDR Full-Automatic Compensated 3Phase Series



#### 250KVA/300KVA/320KVA/350KVA

250 300	current(A) 375	DxWxH(cm) 116 × 88 × 186	(unit)	
PERSONAL PROPERTY.	375	116 - 88 - 186		
300		110 × 00 × 100	1	
300	450	$116 \times 88 \times 186$	1	
320	480	$116 \times 88 \times 186$	1	
350	525	$116 \times 88 \times 186$	1	
The state of the s	Control of the Contro			
Phase voltage 220V±30%,wire voltage 380V±30%(Optional) Phase voltage 220V,wire voltage 380V ±2-5%(adjustable) 50Hz/60Hz Over voltage,over current,phase failure,phase sequence,machine fault indication >95%				
1	320 350 nase voltage 220 nase voltage 220 nase voltage 220 -5%(adjustable Hz/60Hz ver voltage, over	320 480 350 525 nase voltage 220V±20%, wire voltage 3 nase voltage 220V±30%, wire voltage 3 nase voltage 220V, wire voltage 380V -5% (adjustable) Hz/60Hz ver voltage, over current, phase failure, 95%	320 480 116 × 88 × 186 350 525 116 × 88 × 186  mase voltage 220V±20%, wire voltage 380V±20% or mase voltage 220V±30%, wire voltage 380V±30% (Optional) mase voltage 220V, wire voltage 380V -5% (adjustable) Hz/60Hz ver voltage, over current, phase failure, phase sequence, machin 95%	



#### 400KVA/450KVA

Model	Pated Power	Output max	Package size	Qty per pkg	
	(KVA)	current(A)	DxWxH(cm)	(unit)	
PDR-400KVA	400	600	126×103×216	1	
PDR-450KVA	450	675	126×103×216	1	
Input voltage		0V±20%, wire voltage			
Output voltage Accuracy of voltage	Phase voltage 220V±30%,wire voltage 380V±30%(Optional) Phase voltage 220V,wire voltage 380V				
Frequency	±2-5%(adjustable) 50Hz/60Hz				
Protection	Over voltage, over current, phase failue, phase sequence, machine fault indication				
Efficiency	>95%				
Response time	≤1.5S				



#### 500KVA/600KVA/800KVA

Rated Power

(KVA)

500

Model

PDR-500KVA

PDR-600KVA	600	900	128×113×216	1	
PDR-800KVA	800	1200	95 × 110 × 200 (2Cabinets)	1	
Input voltage	Phase voltage 22	0V±20%,wire voltage	380V±20% or		
	Phase voltage 22	0V±30%,wire voltage	380V±30%(Optional)		
Output voltage	Phase voltage 220V, wire voltage 380V				
Accuracy of voltage	±2-5%(adjustable	2)			
Frequency	50Hz/60Hz				
Protection	Over voltage, over	r current, phase failue	phase sequence, machine fault in	dication	
Efficiency	>95%				
Response time	≤1.5S				

Output max

current(A)

750

Package size

DxWxH(cm)

128×113×216

Qty per pkg (unit)

1





## **HEAVY DUTY AC AUTOMATIC VOLTAGE REGULATOR / STABILIZER**

## FD Series Contactless Precision Purified 1 Phase

#### **Feature**

FD series contactless precise purifying AC power supply adopts the power regulation technology of sinewave energy distribution formula, which is advanced in the world and represents the latest development of AC stabilizing technology. Its circuit is composed of sinewave energy distributor and large power wave filter by paralleling. It has the advantages as high accuracy of stabilization, strong overload capacity, high efficiency, successively working for long period and long service time. It is an ideal replacement for common voltage stabilizer, also it can provide a quiet and reliable working environment. With faster response time than servo type stabilizer it really gives extra stable voltage.

#### Application

It is suitable for computer network, electronic instruments, hospital equipments, research center, measurement and test devices, factory test board, home applications, etc.

#### Specification



#### 0.5KVA/1KVA

**Input Voltage** 175V - 260V Waveform Distortion < 5%

**Output Voltage** 220V **Ambient Temp.** -10°C ~ +40°C

Efficiency Accuracy of Voltage ± 1% > 90%

Frequency 50 ± 2Hz **Dimension** 39 x 23 x 32cm

**Qty per Pkg** 1 Unit **Response Time** 20ms - 100ms



#### 2KVA/3KVA

175V - 260V Waveform Distortion < 5% **Input Voltage** 

Ambient Temp. -10°C ~ +40°C **Output Voltage** 220V

Efficiency > 90% Accuracy of Voltage ± 1%

Dimension 45 x 25 x 38cm 50 ± 2Hz Frequency

**Response Time** 20ms - 100ms **Qty per Pkg** 1 Unit



#### 5KVA/6KVA

Waveform Distortion < 5% **Input Voltage** 175V - 260V

Ambient Temp. -10°C ~ +40°C **Output Voltage** 220V

Accuracy of Voltage ± 1% Efficiency > 90%

Dimension 52 x 29 x 42cm Frequency 50 ± 2Hz

1 Unit Response Time 20ms - 100ms **Qty per Pkg** 



#### 8KVA/10KVA

Frequency

**Input Voltage** Waveform Distortion < 5% 175V - 260V Ambient Temp. -10°C ~ +40°C **Output Voltage** 220V

Accuracy of Voltage ± 1% Efficiency > 90%

Dimension 56 x 31 x 46cm

Qty per Pkg 1 Unit **Response Time** 20ms - 100ms

50 ± 2Hz



# HEAVY DUTY AC AUTOMATIC VOLTAGE REGULATOR / STABILIZER

## FD Series Contactless Precision Purified 1 Phase



#### 15KVA / 20KVA

Input Voltage 175V - 260V Waveform Distortion < 5%

Output Voltage 220V Ambient Temp. -10°C ~ +40°C

Accuracy of Voltage ± 1% Efficiency > 90%

Frequency 50 ± 2Hz Dimension 66 x 34 x 50cm

Response Time 20ms - 100ms Qty per Pkg 1 Unit



#### 30KVA

Input Voltage 175V - 260V Waveform Distortion < 5%

Output Voltage 220V Ambient Temp. -10°C ~ +40°C

Accuracy of Voltage ± 1% Efficiency > 90%

Frequency 50 ± 2Hz Dimension 70 x 40 x 55cm

Response Time 20ms - 100ms Qty per Pkg 1 Unit

All specifications subject to change without notice.



## PDS Servo Type 3Phase Series



#### 10KVA

Input voltage	280V-430V(Three phase four wire)	Relative humidity	< 95%
Output voltage	Wire voltage 380V, phase voltage 220V	Ambient temperature	-10°C ~ +40°C
Accuracy of voltage	±2.5%	Efficiency	> 90%
Frequency	50Hz/60Hz	Package size D $\times$ W $\times$ H(cm)	$40 \times 46 \times 86$
Response time	≤1.5S	Qty per pkg(unit)	1



#### 15KVA

Input voltage	280V-430V(Three phase four wire)	Relative humidity	< 95%
Output voltage	Wire voltage 380V, phase voltage 220V	Ambient temperature	-10°C ~ +40°C
Accuracy of voltage	±2.5%	Efficiency	> 90%
Frequency	50Hz/60Hz	Package size D $\times$ W $\times$ H(cm)	$48 \times 51 \times 86$
Response time	≤1.5S	Qty per pkg(unit)	1



#### 20/30KVA

Input voltage	280V-430V(Three phase four wire)	Relative humidity	< 95%
Output voltage	Wire voltage 380V, phase voltage 220V	Ambient temperature	-10°C ~ +40°C
Accuracy of voltage	±2.5%	Efficiency	> 90%
Frequency	50Hz/60Hz	Package size $D \times W \times H(cm)$	$55 \times 59 \times 95$
Response time	≤1.5S	Qty per pkg(unit)	1



#### 45KVA / 60KVA/80KVA / 100KVA

Input voltage	280V-430V(Three phase four wire)	Relative humidity	< 95%
Output voltage	Wire voltage 380V, phase voltage 220V	Ambient temperature	-10°C ~ +40°C
Accuracy of voltage	±2.5%	Efficiency	> 90%
Frequency	50Hz/60Hz	Package size $D \times W \times H(cm)$	$70 \times 80 \times 140$
Response time	≤1.5S	Qty per pkg(unit)	1





## FS Servo Type 1Phase Series

## 2KVA



160V-250V < 95% Input voltage Relative humidity Output voltage 220V/110V Ambient temperature -10°C ~ +40°C ±2.5% Accuracy of voltage Efficiency >90% 50Hz/60Hz Package size D  $\times$  W  $\times$  H(cm) 61  $\times$  36  $\times$  28 Frequency ≤1.5S 2 Response time Qty per pkg(unit)

#### 3KVA



Input voltage 160V-250V Relative humidity < 95% 220V/110V Ambient temperature -10°C ~ +40°C Output voltage Accuracy of voltage ±2.5% Efficiency >90% 50Hz/60Hz Package size D  $\times$  W  $\times$  H(cm)  $61 \times 39 \times 31$ Frequency Response time ≤1.5S Qty per pkg(unit) 2

## 5KVA (Vertical Type)



160V-250V < 95% Input voltage Relative humidity -10°C ~ +40°C 220V Ambient temperature Output voltage Accuracy of voltage ±2.5% Efficiency > 90% 50Hz/60Hz Package size D  $\times$  W  $\times$  H(cm)  $32 \times 35 \times 51$ Frequency Response time ≤1.5S Qty per pkg(unit)

## 7.5KVA / 10KVA (Vertical Type)



Input voltage 160V-250V Relative humidity < 95% -10°C ~ +40°C Output voltage 220V Ambient temperature >90% ±2.5% Accuracy of voltage Efficiency Frequency 50Hz/60Hz Package size  $D \times W \times H(cm)$  $32 \times 35 \times 52$ ≤1.5S Response time Qty per pkg(unit)





DISTRIBUTOR:		