



PROFESSIONAL POWER SUPPLIER

UPS



Company Profile



Shenzhen ZLPOWER Electronics Co., Ltd established on 2006 year. We are national high-tech enterprise which professional researching, manufacturing and exporting UPS power supply, Inverter power supply, Solar inverter, car charging pile, EPS Power supply. Our power products capacity from 400VA to 400KVA parallel series, which can satisfy different fields customers` requirements.

ZLPOWER Company had passed ISO9001 quality management system certification, ISO14001 environmental management system certification. Our products had passed several industry certifications such as Thayer certification, CE certification, UL certification, ETL certification, CCC certification...

After several years' accumulation and development, ZLPOWER has a excellent researching and management team and many advanced production testing equipments, which ensures our products stability and innovation and got successful achievements in some fields.

Our products are sold all over the world, mainly exported countries and areas include Europe, Africa, Middle East, Asia, USA, Canada... Our products widely used for military, finance, communication, medical treatment, Industry, public security and civil power solutions.

Our core value is: "Survive with high quality, develop with innovation"

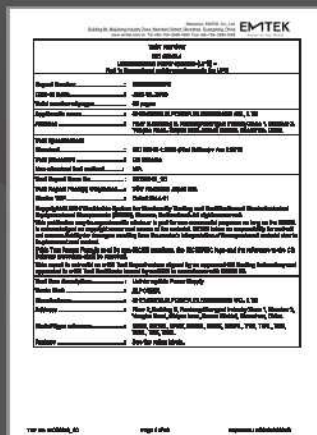
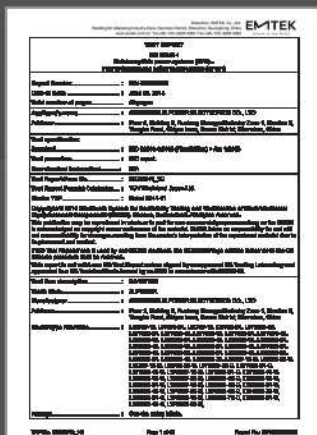
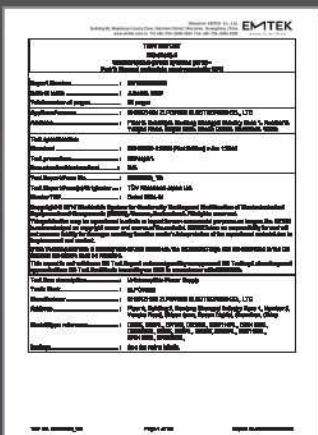
ZLPOWER family members always insist on the sprit and concept of "Industry serve the country, technology first, quality to success, service for optimal, treat enterprise as home, undertakings as soul, striving with happy, dedication to purport" to develop our enterprise, We are being accepted and respected by our filed because of our professional technology and high quality service.

ZLPOWER members will be studying the consumption requirements of customers, providing high-quality products and best service, building national brand, striving to become worldwide famous power products manufacturer and world-class enterprise.

Our Mission: Carry the sprit of the craftsman, Pursue perfect quality, produce best quality electric power equipments, Create better life.

Key values: Innovation, Pragmatic, Responsibility, Striving, Win-Win.

Enterprise Qualifications



CX1K Series

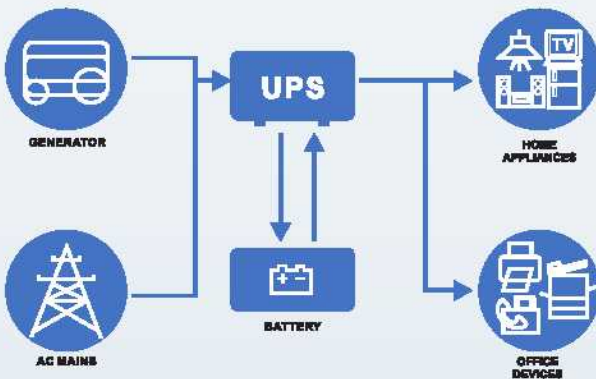


CX1K series high frequency online UPS is specially designed for servers, datacenter critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Advanced DSP numerical control technology application, the performance of UPS is more stable, more superior quality.
- ◆ The load power factor is 0.8.
- ◆ Adopting digital control of active power factor correction technology, make the input power factor above 0.98, to avoid the pollution to power network, achieve energy saving, reduce the investment cost of the system.
- ◆ A very wide range of input voltage and frequency, even in remote parts of electric power environment is very bad to normal power supply, reduce the number of battery discharge, improve the service life of the battery.
- ◆ Can match generator to use, input voltage and frequency range is wide, can effectively isolate the generator of electricity, to provide clean, safe and stable power supply load.
- ◆ Grid is not stable, UPS power supply mode conversion time is zero, effectively ensure the security and reliability of the load operation.
- ◆ Smart slot can provide abundant extensible function; can choose to install Winpower, SNMP card.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

Model		CX1K	CX1KL
Capacity	VA/W	1000VA/800W	1000VA/800W
Input	Nominal Voltage Voltage Range Harmonic Distortion Power Factor Frequency Range	200/208/220/230/240VAC 110~300VAC <10% (Nonlinear load) 0.98 50Hz:46 ~ 54Hz; 60Hz:56 ~ 64Hz	
Output	Voltage Frequency Wave Form Power Factor Harmonic Distortion Overload Protection Current Crest Ratio Connections	200/208/220/230/240(1±2%)VAC 50/60Hz (Adjustable); 50Hz AC Mode: Follow AC Mode (AC Range 46~54Hz); Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC Mode (AC Range 56~64Hz); Battery Mode: 60Hz (1±0.2%); Pure sine wave 0.8 <4% (Linear load); ≤7% (Nonlinear load) 105% ~ 150% 45S ~ 25S; 150% ~ 200% 25s ~ 300ms; ≥200% 200ms 3:1 IEC320*4	IEC320*4
Efficiency	Battery Mode AC Mode	81% 85%	
Battery	Type Nominal DC voltage Quantity Back-up Time (Full Load) Charge Current (MAX) Charge Voltage Recharge Time	Sealed free maintenance lead acid battery 24VDC 12VDC×2 > 2.5min(12V7AH) 1 A 27.4V±0.2VDC 5 hours filling to 90% (standard)	36VDC 12VDC×3 Depends on requested Back-up time 5 A 41.1V±0.2VDC Depends on external battery capacity (long-term)
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure Default "NO" user adjustable to "YES"	
Transfer Time		0 ms(from main to battery and vice versa); Less than 4ms from Inverter to bypass and vice versa	
Indicators	LCD Display	UPS status, Battery capacity, loading, Fault code(LCD: I/P & O/P voltage & frequency)	
Audible		Bypass, On battery mode, Battery low, Overload, Fault	
Acoustic Noise	At 1 Meter Distance	<45dB	
Communications	Intelligent RS232 serial port SNMP (Optional) USB (Optional)	Software support Windows family software, Linux, Sun network operating system, IBM Aix, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC Remote control UPS through SNMP management and Internet Windows family software and Mac OS	
Environmental	Operating Temperature Operating Humidity	0~40℃ 20-90% (No condensation)	
Weight	Net Weight (kg)	9.5	5.0
UPS Dimension	L*W*H(mm)	373*145*219	373*145*219

◆ Product specifications are subject to change without further notice.

CX2~3K Series

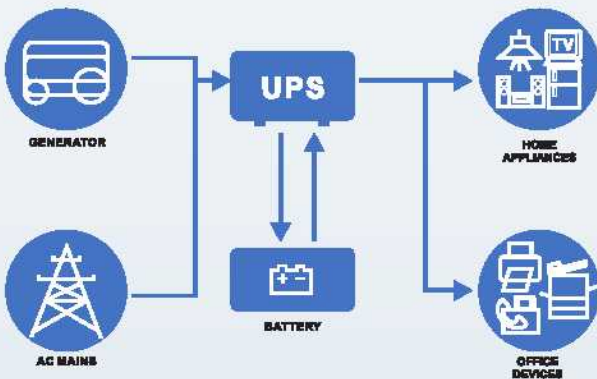


CX2~3K series high frequency online UPS is specially designed for servers, datacenter critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Advanced DSP numerical control technology application, the performance of UPS is more stable, more superior quality.
- ◆ The load power factor is 0.8.
- ◆ Adopting digital control of active power factor correction technology, make the input power factor above 0.98, to avoid the pollution to power network, achieve energy saving, reduce the investment cost of the system.
- ◆ A very wide range of input voltage and frequency, even in remote parts of electric power environment is very bad to normal power supply, reduce the number of battery discharge, improve the service life of the battery.
- ◆ Can match generator to use, input voltage and frequency range is wide, can effectively isolate the generator of electricity, to provide clean, safe and stable power supply load.
- ◆ Grid is not stable, UPS power supply mode conversion time is zero, effectively ensure the security and reliability of the load operation.
- ◆ Smart slot can provide abundant extensible function; can choose to install Winpower, SNMP card.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

Model		CX2K	CX3K	CX2KL	CX3KL
Capacity	VA/W	2000VA/1600W	3000VA/2400W	2000VA/1600W	3000VA/2400W
Input	Nominal Voltage	200/208/220/230/240VAC			
	Voltage Range	110~300VAC			
	Harmonic Distortion	<10% (Nonlinear load)			
	Power Factor	0.98			
	Frequency Range	50Hz:46 ~ 54Hz; 60Hz:56 ~ 64Hz			
Output	Voltage	200/208/220/230/240(1±2%)VAC			
	Frequency	50/60Hz (Adjustable); 50Hz AC Mode: Follow AC Mode (AC Range 46~54Hz); Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC Mode (AC Range 56~64Hz); Battery Mode: 60Hz (1±0.2%);			
	Wave Form	Pure sine wave			
	Power Factor	0.8			
	Harmonic Distortion	<4% (Linear load); <7% (Nonlinear load)			
	Overload Protection	105% ~ 150% 45S ~ 25S; 150% ~ 200% 25s ~ 300ms; ≥200% 200ms			
	Current Crest Ratio	3:1			
	Connections	IEC320*6	IEC320*3& Terminal block	IEC320*6	IEC320*3& Terminal block
Efficiency	Battery Mode	83%			
	AC Mode	87%			
Battery	Type	Sealed free maintenance lead acid battery			
	Nominal DC voltage	48VDC	72VDC	72VDC	96VDC
	Quantity	12VDC×4	12VDC×6	12VDC×6	12VDC×8
	Back-up Time (Full Load)	> 5min (12V7AH)	> 4.5min (12V7AH)	Depends on requested Back-up time	
	Recharge Time	5 hours filling to 90% (standard)		Depends on external battery capacity (long-term)	
	Charge Current (MAX)	1A	1A	5A	5A
	Charge Voltage (VDC)	54.8V±0.4VDC	82.2V±0.6VDC	82.2V±0.6VDC	110V±0.6VDC
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure Default "NO" user adjustable to "YES"			
Transfer Time		0 ms(from main to battery and vice versa); Less than 4ms from inverter to bypass and vice versa			
Indicators	LCD Display	UPS status, Battery capacity, loading, Fault code(LCD: I/P & O/P voltage & frequency)			
Audible		Bypass, On battery mode, Battery low, Overload, Fault			
Acoustic Noise	At 1 Meter Distance	<50dB			
Communications	Intelligent RS232 serial port	Software support Windows family software, Linux, Sun network operating system, IBM AIX, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC			
	SNMP (Optional)	Remote control UPS through SNMP management and Internet			
	USB (Optional)	Windows family software and Mac OS			
Environmental	Operating Temperature	0~40℃			
	Operating Humidity	20-90% (No condensation)			
Weight	Net Weight (kg)	17.5	22	9.5	10
UPS Dimension	L*W*H(mm)	448*192*341	448*192*341	448*192*341	448*192*341

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EX1K Series

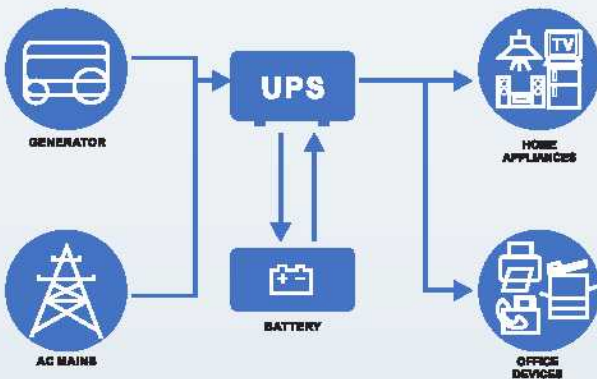


EX1K series high frequency online UPS is specially designed for servers, data-center critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Large Blue Ground LCD digital display shows Detail Real-Time UPS Status and parameters.
- ◆ Set output voltage, Frequency parameter and Bypass function on the display.
- ◆ Advanced MCU microprocessor control Technology, ensure long life reliability.
- ◆ Excellent Protection against over voltage, overload, over current, overcharge and so on.
- ◆ Input L and N lines reverse wiring detection.
- ◆ DC start function, input PFC revises function.
- ◆ Humanized bypass output adjustable.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.
- ◆ Strong anti-jamming capability.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short-circuit, network/fax/modem surge protection.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

Model		EX1K	EX1KL
Capacity	VA/W	1000VA/800W	1000VA/800W
Input	Nominal Voltage Voltage Range Frequency Range Phase Power Factor	100/110/115/120VAC or 200/220/230/240VAC 60~138VAC or 115~300VAC 50Hz; 46~54Hz; 60Hz; 56~64Hz Single phase with Ground ≥0.97	
Output	Voltage Frequency Wave Form Power Factor Harmonic Distortion Overload Protection Current Crest Ratio Connections	100/110/115/120VAC or 200/220/230/240 VAC 50/60Hz (Adjustable); 50Hz AC Mode: Follow AC, Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC, Battery Mode: 60Hz (1±0.2%); Pure sine wave 0.8 ≤3% THD (Linear load), ≤7% THD (Nonlinear load) 110%~150% maintain 30s then turn to bypass output, over 150% maintain 300ms 3:1 IEC320*4	IEC320*4
Efficiency	Battery Mode AC Mode	83% 85%	
Battery	Type Nominal DC voltage Quantity Back-up Time (Full Load) Recharge Time Charge Current (MAX) Charge Voltage (VDC)	Sealed free maintenance lead acid battery 36VDC 12VDCx3 ≥6min(12V 7.0AH) 5 hours to 90% of capacity full discharge 1.0 A 41.1V±0.4V	36VDC 12VDCx3 Depend on requested back-up time Depends on the capacity of external battery bank 5.0 A/ 7.0 A 41.1V±0.4V
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure Default "NO" user adjustable to "YES"	
Transfer Time		0 ms(from main to battery and vice versa); Less than 4ms from inverter to bypass and vice versa	
Indicators	LCD Display	UPS status, Battery capacity, loading, Fault code (LCD: I/P & O/P voltage & frequency)	
Audible Alarm		Bypass, On battery mode, Battery low, Overload, Fault	
Acoustic Noise	At 1 Meter Distance	<45dB	
Communications	Intelligent RS232 serial port SNMP (Optional) USB (Optional)	Software support Windows family software, Linux, Sun network operating system, IBM AIX, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC Remote control UPS through SNMP management and Internet Windows family software and Mac OS	
Network Surge Protection		RJ45 I/O port available for network or FAX/Telephone line/Modem	
Environmental	Operating Temperature Operating Humidity	0~40℃ 20-90% (No condensing)	
Weight	Net Weight (kg)	11	5.5
UPS Dimension	L*W*H(mm)	361*145*219	361*145*219

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EX2~3K Series

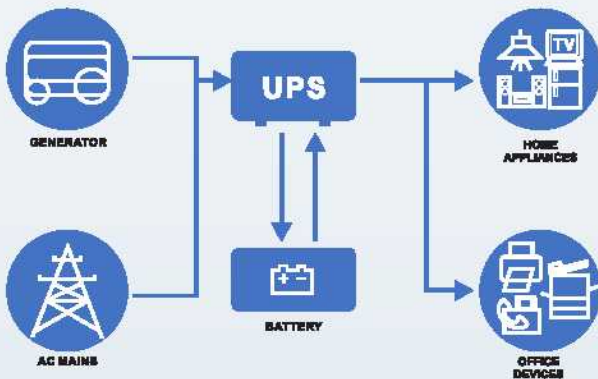


EX2~3K series high frequency online UPS is specially designed for servers, datacenter critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Large Blue Ground LCD digital display shows Detail Real-Time UPS Status and parameters.
- ◆ Set output voltage, Frequency parameter and Bypass function on the display.
- ◆ Advanced MCU microprocessor control Technology, ensure long life reliability.
- ◆ Excellent Protection against over voltage, overload, over current, overcharge and so on.
- ◆ Input L and N lines reverse wiring detection.
- ◆ DC start function, input PFC revises function.
- ◆ Humanized bypass output adjustable.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.
- ◆ Strong anti-jamming capability.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short-circuit, network/fax/modem surge protection.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

Model		EX2K	EX3K	EX2KL	EX3KL
Capacity	VA/W	2000VA/1800W	3000VA/2400W	2000VA/1600W	3000VA/2400W
Input	Nominal Voltage Voltage Range Frequency Range Phase Power Factor	100/110/115/120VAC or 200/220/230/240VAC 60~138VAC or 115~300VAC 50Hz; 46~54Hz; 60Hz; 56~64Hz Single phase with Ground ≥0.97			
Output	Voltage Frequency Wave Form Power Factor Harmonic Distortion Overload Capacity Current Crest Ratio Connections	100/110/115/120VAC or 200/220/230/240VAC 50/60Hz (Adjustable); 50Hz AC Mode: Follow AC, Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC, Battery Mode: 60Hz (1±0.2%); Pure sine wave 0.8 ≤3% THD (Linear load); ≤7% THD (Nonlinear load) 110%~150% maintain 30s then turn to bypass output, over 150% maintain 300ms 3:1 IEC320*6 IEC320*3& Terminal block IEC320*6 IEC320*3& Terminal block			
Efficiency	Battery Mode AC Mode	83% 85%			
Battery	Type Nominal DC voltage Quantity Back-up Time (Full Load) Recharge Time Charge Current (MAX) Charge Voltage (VDC)	Sealed free maintenance lead acid battery 96VDC 12VDCx8 ≥7min(12V 7.0AH) 5 hours to 90% of capacity full discharge 1.0 A 110V±0.6V 96VDC 12VDCx8 ≥6min(12V 7.0AH) Depend on requested back-up time Depends on the capacity of external battery bank 1.0 A 110V±0.6V 96VDC 12VDCx8 5.0 A/ 7.0 A 110V±0.6V 5.0 A/ 7.0 A 110V±0.6V 110V±0.6V			
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure Default "NO" user adjustable to "YES"			
Transfer Time		0 ms(from main to battery and vice versa); Less than 4ms from inverter to bypass and vice versa			
Indicators	LCD Display	UPS status, Battery capacity, loading, Fault code (LCD: I/P & O/P voltage & frequency)			
Audible Alarm		Bypass, battery mode, Battery low, Overload, Fault			
Acoustic Noise	At 1 Meter Distance	<50dB			
Communications	Intelligent RS232 serial port SNMP (Optional) USB (Optional)	Software support Windows family software, Linux, Sun network operating system, IBM AIX, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC Remote control UPS through SNMP management and Internet Windows family software and Mac OS			
Network Surge Protection		RJ45 I/O port available for network or FAX/Telephone line/Modem			
Environmental	Operating Temperature Operating Humidity	0~40℃ 20-90% (No condensation)			
Weight	Net Weight (kg)	26.5	27.0	10.5	11.0
UPS Dimension	L*W*H(mm)	455*195*340	455*195*340	455*195*340	455*195*340

◆ Product specifications are subject to change without further notice.

EX6~10K Series

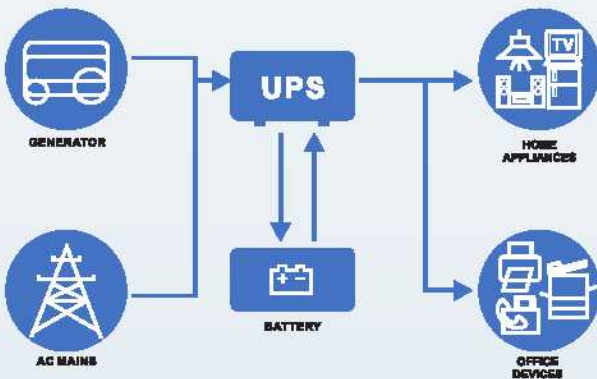


EX6~10KVA series high frequency online UPS is specially designed for servers, datacenter critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Large Blue Ground LCD digital display shows Real time detailed status and parameters.
- ◆ Output Voltage, Frequency parameter can be set on the display.
- ◆ Advanced DSP technology, ensure long life reliability.
- ◆ Wide input voltage range, zero transfer time.
- ◆ True online double conversion technology.
- ◆ N+X parallel redundancy.
- ◆ Excellent protection against over voltage, over Load, over current, over charge and so on.
- ◆ Input L and N Lines reverse wiring detection, Auto start when AC back.
- ◆ DC start function, input PFC revises function.
- ◆ Auto bypass output.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short circuit, protection.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

Model		EX6K	EX10K	EX6KL	EX10KL
Capacity	VA/W	6000VA/4800W	10000VA/8000W	6000VA/4800W	10000VA/8000W
Input	Nominal Voltage	200/208/220/230/240VAC			
	Voltage Range	120~275VAC			
	Frequency Range	50Hz/60Hz(Adjustable); 50Hz:46 ~ 54Hz; 60Hz:56 ~ 64Hz			
	Phase	Single phase with Ground			
	Power Factor	≥0.97			
Output	Voltage	200/208/220/230/240*(1±1%) VAC			
	Frequency	50/60Hz (Adjustable); 50Hz AC Mode: Follow AC Mode (AC Range 46~54Hz); Battery Mode: 50Hz (1±0.1%); 60Hz AC Mode: Follow AC Mode (AC Range 56~64Hz); Battery Mode: 60Hz (1±0.1%);			
	Wave Form	Pure sine wave			
	Power Factor	0.8			
	Harmonic Distortion	≤2% THD (Linear load), ≤6% THD (Nonlinear load)			
	Overload Capacity	105%~125% 1sec 125%~135% 30sec >135% 0.5sec			
	Current Crest Ratio	3:1			
	Connections	Terminal block			
Efficiency	Battery Mode	87%			
	AC Mode	88%			
Battery	Type	Sealed free maintenance lead acid battery			
	Nominal DC voltage	192VDC	192VDC	192VDC	192VDC
	Quantity	12VDCx16	12VDCx16	12VDCx16	12VDCx16
	Back-up Time (Full Load)	> 4min(12V7AH)	> 3min(12V7AH)	Depends on requested Back-up time	
	Recharge Time	7 hours to 90%	7 hours to 90%	Depends on the capacity of external battery bank	
	Charge Current (MAX)	1A	1A	2 A	2 A
	Charge Voltage	219.5VDC±1%V			
Bypass	Automatic Transfer	On overload and UPS failure			
Transfer Time		Zero			
Indicators	LCD Display	UPS status, I/P & O/P voltage & frequency, Battery voltage, Battery capacity, Loading, Fault code			
Audible Alarm		Bypass, On battery mode, Battery low, Overload, Fault			
Acoustic Noise	At 1 Meter Distance	<55dB			
Communications	Intelligent RS232 serial port	Windows 98/NT/2000/XP/3000, Linux, Sun network, IBM AIX, Compaq True64 SGI IRIX, FreeBSD, HP-UX, MAC			
	SNMP (Optional)	Power management from SNMP manager and web browser			
	USB (Optional)	Windows family software and Mac OS			
Environmental	Operating Temperature	0~40℃			
	Operating Humidity	20-90% (No condensation)			
Weight	Net Weight (kg)	59	60.5	20	21.5
UPS Dimension	L*W*H(mm)	500*248*616	500*248*616	500*240*490	500*240*490

◆ Product specifications are subject to change without further notice.

EX3110~3120K Series

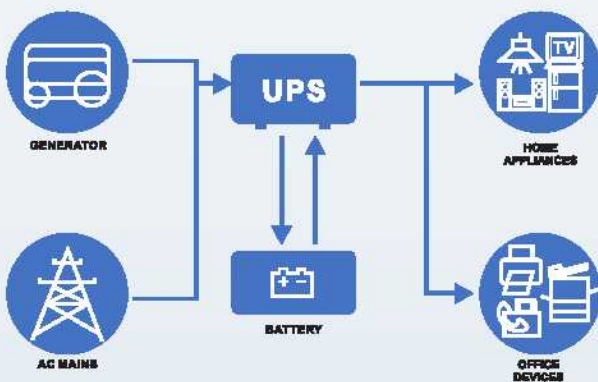


EX3110~3120KVA series high frequency online UPS is specially designed for servers, data-center critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ Large Blue Ground LCD digital display shows Real time detailed status and parameters.
- ◆ Output Voltage, Frequency parameter can be set on the display.
- ◆ Advanced DSP technology, ensure long life reliability.
- ◆ Wide input voltage range, zero transfer time.
- ◆ True online double conversion technology.
- ◆ N+X parallel redundancy.
- ◆ Excellent protection against over voltage, over Load, over current, over charge and so on.
- ◆ Input L and N Lines reverse wiring detection, Auto start when AC back.
- ◆ DC start function, input PFC revises function.
- ◆ Auto bypass output.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short circuit, protection.

Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD display

Specifications

High Frequency Online UPS

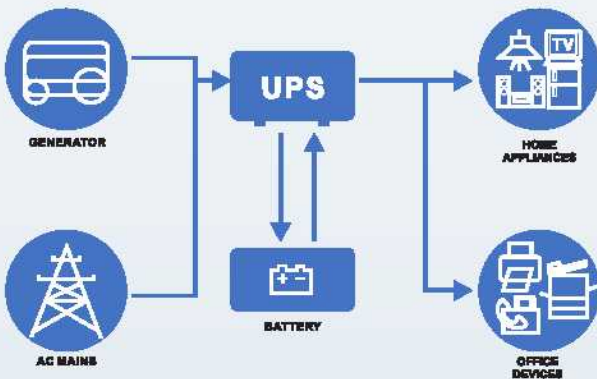
Model		EX3110K	EX3110KL	EX3115KL	EX3120KL
Capacity	VA/W	10KVA/8000W	10KVA/8000W	15KVA/12KW	20KVA/16KW
Input	Nominal Voltage	380VAC			
	Voltage Range	210~475VAC			
	Frequency Range	50Hz/60Hz(Adjustable); 50Hz:46 ~ 54Hz; 60Hz:56 ~ 64Hz			
	Phase	Three phase (4 Wires+Ground)			
	Power Factor	≥0.95			
Output	Voltage	200/208/220/230/240*(1±1%) VAC			
	Frequency	50/60Hz (Adjustable); 50Hz AC Mode: Follow AC Mode (AC Range 46~54Hz); Battery Mode: 50Hz (1±0.1%); 60Hz AC Mode: Follow AC Mode (AC Range 56~64Hz); Battery Mode: 60Hz (1±0.1%);			
	Wave Form	Pure sine wave			
	Power Factor	0.8			
	Harmonic Distortion	<2% (Linear load); ≤6% (Nonlinear load)			
	Overload Capacity	Load < 105% work constant; 105% < load < 125% 1min; 125% < load < 135% 30sec; >135% 0.5sec			
	Current Crest Ratio	3:1			
	Connections	Terminal block			
Efficiency	Battery Mode	87%			
	AC Mode	85%			
Battery	Type	Sealed free maintenance lead acid battery			
	Nominal DC voltage	192VDC	192VDC	192VDC	192VDC
	Quantity	12VDCx16	12VDCx16	12VDCx16	12VDCx16
	Back-up Time (Full Load)	≥3 min(12V7.0AH)	Depends on requested Back-up time		
	Recharge Time	7 hours to 90%	Depends on the capacity of external battery bank		
	Charge Current (MAX)	1.0A	4.5 A	4.5 A	4.5 A
	Charge Voltage	219.5VDC±1%V	219.5VDC±1%V	219.5VDC±1%V	219.5VDC±1%V
Bypass	Automatic Transfer	On overload and UPS failure			
Transfer Time		Zero			
Indicators	LCD Display	UPS status, I/P & O/P voltage & frequency, Battery voltage, Battery capacity, Loading, Fault code			
Audible Alarm		Bypass, On battery mode, Battery low, Overload, Fault			
Acoustic Noise	At 1 Meter Distance	<55dB	<55dB	<60dB	<60dB
Communications	Intelligent RS232 serial port	Windows 98/NT/2000/XP/3000, Linux, Sun network , IBM AIX, Compaq True64 SGI IRIX, FreeBSD, HP-UX, MAC			
	SNMP (Optional)	Power management from SNMP manager and web browser			
	USB (Optional)	Windows family software and Mac OS			
Environmental	Operating Temperature	0~40℃			
	Operating Humidity	20-90% (No condensation)			
Weight	Net Weight (kg)	65	28	35	35
UPS Dimension	L*W*H(mm)	500*248*616	500*248*616	500*248*616	500*248*616

◆ Product specifications are subject to change without further notice.

EX3320~80K Series



Application:



Home



Office



Farm



Industrial



sinewave output



AC charger



LCD/LED display

EX33 high frequency online UPS is applicable to small and medium-sized data centers, network management center, computer rooms for enterprises, or able to provide solutions to conditions like voltage instantaneous drop-off or damping concussion, high-voltage pulse, voltage pulsation, surge voltage, harmonic distortion, and frequency fluctuation.

Each single phase of the EX33 series UPS is converted to DC through an individual PFC circuit and then transferred to AC through Inverter for output. At the same time, a separate controller is provided for the real time control and data collection of PFC circuit so that the whole system can operate more harmonious or feedback the system state to the customer more promptly. In addition, the controlling of battery charging can extend the battery's serve lifetime effectively and the twin-channel line input improves the system's reliability.

Furthermore, the series product is enhanced with excellent performance in protection level, which ensures the stability of UPS working in industrial environment with large dusts.

Features:

- ◆ Excellent performance in industrial environment protection
- ◆ N+X parallel redundancy (compatible to battery share in the parallel mode)
- ◆ Intelligent management of battery charging and discharging
- ◆ Frontal-board operation and maintenance
- ◆ Twin-channel line input
- ◆ Remote monitoring
- ◆ High-efficient DSP chip
- ◆ Outstanding electric property
- ◆ Flexible battery arrangement

Specifications

High Frequency Online UPS

Model		EX3320KL	EX3330KL	EX3340KL	EX3360KL	EX3380KL	
Capacity	VA	20KVA	30KVA	40KVA	60KVA	80KVA	
	W	18KW	24KW	32KW	48KW	64KW	
Input	Voltage Range	210~475VAC					
	Frequency Range	40 ~ 70Hz					
	Phase Line	Three phase 4 line + earth line					
	THDI	<3%					
	Power Factor	≥0.99					
	Twin-channel Line Input	Yes					
Battery	Type	Valve-regulated lead-acid storage battery					
	Standby Time	Depended by external battery bank					
Output	Voltage	380VAC/220VAC					
	Frequency	50/60Hz					
	Phase Line	Three-phase 4 line + earth line					
	Rated Output Power Factor	0.8					
	Overload Capacity		125% maintain 10 minutes				
			150% maintain 1 minutes				
Efficiency	Line Input Mode	93%	93%	93%	94%	94%	
	Bat Mode	93%	93%	93%	93%	93%	
	ECO Mode	98%	98%	98%	98%	98%	
Intelligent Speed Control Of Fan		Yes					
Display Devices	LCD Display	I/O voltage, current, frequency, BAT voltage, charging current value, discharging current value, fault display, fault, warning					
	LED Display	The operation state of UPS					
Warning Devices		Two ways of alerting: BUZZER sound, lamp signal					
CON Interface		RS232, AS400, RS485, Service, EPO, BAT temperature compensation, intelligent Solt					
Operation Environment	Temperature	0~40℃					
	Humidity	<95% (No Condensation)					
Weight(kg)	Net Weight(include transformer)	82 / 208	110 / 275	114 / 314	282	306	
	Gross weight(include transformer)	122 / 248	160 / 325	164 / 364	358	380	
UPS Dimension	L*W*H(mm)(host machine)	420*643*956	470*710*1150	470*710*1150	600*800*1850	600*800*1850	

◆ Product specifications are subject to change without further notice.

RA1~3KL Series

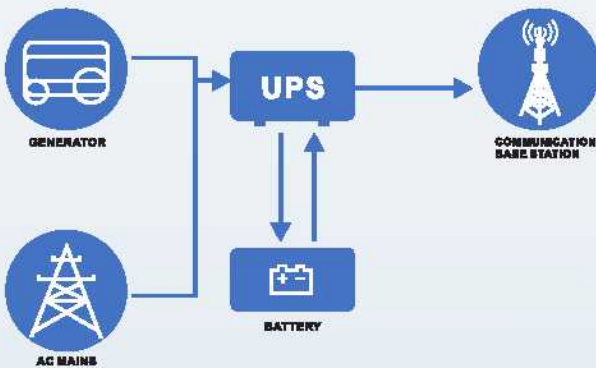


RA series High frequency outdoor UPS is used in suburban district, remote road or mountain, severe environment such as areas with high temperature(+50℃)/low temperature(-40℃), severe dust, moisture, rain, mist erosion, poor grid power quality(voltage durative higher than 260V or less than 160V, Frequency abnormal change)

Features:

- ◆ Provides a pure uninterrupted AC sine wave power supply for the outdoor communication / network equipment.
- ◆ The use of high temperature, anti cold, salt spray, anti-corrosion, anti dust, waterproof, lightning protection design.
- ◆ Advanced MCU microprocessor control Technology, ensure long life reliability.
- ◆ Excellent Protection against over voltage, overload, over current, overcharge and so on.
- ◆ Strong anti-jamming capability, Lightning, surge, short-circuit, network/fax/modem surge protection.
- ◆ Input L and N lines reverse wiring detection.
- ◆ DC start function, input PFC revises function.
- ◆ Humanized bypass output adjustable.
- ◆ Available to work with generators.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.

Application:



Home



Farm



Industrial



sinewave output



AC charger



LED display

Specifications

High Frequency Online Outdoor UPS

Model		RA1KL	RA2KL	RA3KL
Capacity	VA/W	1000VA/800W	2000VA/1600W	3000VA/2400W
Input	Nominal Voltage	110/115/120VAC or 200/220/230/240VAC		
	Voltage Range	60~138VAC or 115~300VAC		
	Frequency Range	50Hz :46~54Hz; 60Hz : 56~64Hz		
	Phase	Single phase with Ground		
	Power Factor	≥0.97		
Output	Voltage	110/115/120 (1±2%) VAC or 208/220/230/240 (1±2%) VAC		
	Frequency	50/60Hz (Adjustable); 50Hz AC Mode: Follow AC, Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC, Battery Mode: 60Hz (1±0.2%);		
	Wave Form	Pure sine wave		
	Power Factor	0.8		
	Harmonic Distortion	<3% THD (Linear load); ≤7% THD (Non-Linear load)		
	Overload Capacity	110%~150% maintain 30s then turn to bypass output; over 150% maintain 300ms		
	Current Crest Ratio	3:1		
	Connections	Terminal block		
Efficiency	Battery Mode	83%		
	AC Mode	85%		
Battery	Type	Sealed free maintenance lead acid battery		
	Nominal DC voltage	36VDC	96VDC	96VDC
	Standard Battery Cabinet	3*100AH	8*100AH	8*100AH
	Back-up Time (Full Load)	Depends on the capacity of internal battery bank (24AH, 38AH, 65AH, 80AH, 100AH battery optional)		
	Recharge Time	Depends on the capacity of internal battery bank		
	Charge Current (MAX)	6.0A	6.0A	6.0A
	Charge Voltage (Vdc)	41.1V±0.4V	110V±0.6V	110V±0.6V
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure "YES"		
Transfer Time		0 ms(from main to battery and vice versa); Less than 4ms from inverter to bypass and vice versa		
Indicators	LED Display	UPS status, Battery capacity, loading, Fault code		
Audible Alarm		Bypass, battery mode, Battery low, Overload, Fault		
Communications	Intelligent RS232 serial port	Software support Windows family software, Linux, Sun network operating system, IBM Aix, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC		
	SNMP (Optional)	Remote control UPS through SNMP management and Internet		
	USB (Optional)	Windows family software and Mac OS		
Environmental	Operating Temperature	0~40℃		
	Operating Humidity	0-95% (No condensation)		
Weight(kg)	Net Weight (No battery)	52	100	100
UPS Dimension	L*W*H(mm) (Movement)	482*380*88.4	482*448*88.4	482*448*88.4
	L*W*H(mm) (Cabinet)	638*507*775	612*525*1511	612*525*1511

◆ Product specifications are subject to change without further notice.

RA6~10KL Series

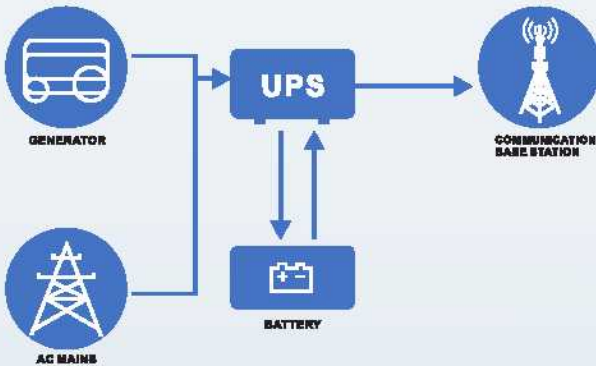


RA series High frequency outdoor UPS is used in suburban district, remote road or mountain, severe environment such as areas with high temperature(+50℃)/low temperature(-40℃), severe dust, moisture, rain, mist erosion, poor grid power quality(voltage durative higher than 260V or less than 160V, Frequency abnormal change)

Features:

- ◆ Provides a pure uninterrupted AC sine wave power supply for the outdoor communication / network equipment.
- ◆ The use of high temperature, anti cold, salt spray, anti-corrosion, anti dust, waterproof, lightning protection design.
- ◆ Advanced DSP technology, ensure long life reliability.
- ◆ True online double conversion technology.
- ◆ Auto bypass output.
- ◆ N+X parallel redundancy.
- ◆ DC start function, input PFC revises function.
- ◆ Input L and N lines reverse wiring detection.
- ◆ Wide input voltage range, zero transfer time.
- ◆ Excellent Protection against over voltage, overload, over current, overcharge and so on.
- ◆ Strong anti-jamming capability, Lightning, surge, short-circuit, network/fax/modem surge protection.
- ◆ Available to work with generators.
- ◆ RS232 intelligent communication monitoring.
- ◆ AS-400 Dry contact and SNMP card remote intelligent control.

Application:



Home



Farm



Industrial



sinewave output



AC charger



LED display

Specifications

High Frequency Online Outdoor UPS

Model		RA6KL	RA10KL
Capacity	VA/W	6000VA/4800W	10000VA/8000W
Input	Nominal Voltage Voltage Range Frequency Range Phase Power Factor	208/220/230/240VAC 120~275VAC 50Hz :46~54Hz; 60Hz : 56~64Hz Single phase with Ground ≥0.97	
Output	Voltage Frequency Wave Form Power Factor Harmonic Distortion Overload Capacity Current Crest Ratio Connections	208/220/230/240*(1±1%) VAC 50/60Hz (Adjustable); 50Hz AC Mode: Follow AC, Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC, Battery Mode: 60Hz (1±0.2%); Pure sine wave 0.8 <2% (Linear load); ≤6% (Non-Linear load) Load<105% work constant; 105%≤load<125% 1min; 125%≤load<135% 30sec; >135% 0.5sec 3:1 Terminal block	
Efficiency	Battery Mode AC Mode	87% 88%	
Battery	Type Nominal DC voltage Standard Battery Cabinet Back-up Time (Full Load) Recharge Time Charge Current (MAX) Charge Voltage (Vdc)	Sealed free maintenance lead acid battery 192VDC 18*38AH (24AH, 38AH battery optional) Depends on the capacity of internal battery bank Depends on the capacity of internal battery bank 2A 219.5Vdc±1%	
Bypass	Automatic Transfer Before UPS Power-on	On overload and UPS failure "YES"	
Transfer Time		Zero	
Indicators	LED Display	UPS status, Battery capacity, loading, Fault code	
Audible Alarm		Bypass, On battery mode, Battery low, Overload, Fault	
Communications	Intelligent RS232 serial port SNMP (Optional) USB (Optional)	Software support Windows family software, Linux, Sun network operating system, IBM Aix, Compaq True64 SGI IRIX, FreeBSD, HP-UX and MAC Power management from SNMP manager and web browser Windows family software and Mac OS	
Environmental	Operating Temperature Operating Humidity	0~40℃ 0-95% (No condensation)	
Weight(kg)	Net Weight (No battery)	120	123
UPS Dimension	L*W*H(mm) (Movement) L*W*H (mm) (Cabinet)	632*482*133.4 718*595*1371	632*482*133.4 718*595*1371

◆ Product specifications are subject to change without further notice.

RM1~3K Series



RM Series 1~3KVA Rack mount High frequency online UPS is specially designed for servers, data-center critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ True online double conversion technology with advanced Microprocessor Control.
- ◆ PWM Technology with IGBT.
- ◆ LED/LCD Indicators display Detailed Real-Time UPS Status and parameters.
- ◆ Set Output Voltage, Frequency parameters and bypass function on the display.
- ◆ Advanced MCU microprocessor control technology ensure long life reliability.
- ◆ Wide input voltage range, Zero transfer time.
- ◆ Rack mount 19" design to save space.
- ◆ Excellent Protection against over voltage, over load, over current, over charge and so on.
- ◆ Input L and N lines reverse wiring detection, Auto start when AC back.
- ◆ DC start function, Input PFC revise function.
- ◆ Humanization bypass output, can be adjustable.
- ◆ Smart RS232 communication with monitoring software.
- ◆ Intelligent solt available for AS-400 Dry contact and SNMP card Remote control.
- ◆ Strong antijamming capability.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short circuit, Network/fax/modem surge protection.
- ◆ LED/LCD display panel optional.

Application:



Specifications

High Frequency Online UPS

LED Model		RM1K-E	RM2K-E	RM3K-E	RM1KL-E	RM2KL-E	RM3KL-E
LCD MODEL		RM1K-C	RM2K-C	RM3K-C	RM1KL-C	RM2KL-C	RM3KL-C
Rated Power	VA	1KVA	2KVA	3KVA	1KVA	2KVA	3KVA
	W	0.8KW	1.6KW	2.4KW	0.8KW	1.6KW	2.4KW
Input	Phase	Single Phase with Ground					
	Nominal Voltage	110/115/120Vac or 220/230/240Vac					
	Voltage Range	68-138VAC or 115~300VAC					
	Frequency Range	50/60Hz(adjustable) 50Hz:46~54Hz; 60Hz:56~64Hz					
	Power Factor	0.97					
	Connection	IEC320-10A inlet	IEC320-10A inlet	IEC320-16A inlet	IEC320-10A inlet	IEC320-10A inlet	IEC320-16A inlet
Output	Phase	Single Phase					
	Voltage	110/115/120Vac or 220/230/240VAC ± 2%					
	Frequency	50Hz AC Mode: Follow AC, Battery Mode: 50Hz (1±0.2%); 60Hz AC Mode: Follow AC, Battery Mode: 60Hz (1±0.2%);					
	Waveform	Pure Sine Wave					
	Overload Capacity	110%~150% for 30 sec., 150% for 300ms					
	Current Crest Ratio	3:1					
	Connections	IEC320-10A*4	IEC320-10A*4	IEC320-10A*4	IEC320-10A*4	IEC320-10A*4	IEC320-10A*4
Bypass	Automatic Transfer Before UPS Power-on	on overload and UPS failure Default"NO", user adjustable to "YES"					
	Transfer Time	0 ms(from main to battery and vice versa); Less than 4ms from Inverter to bypass and vice versa					
LED/LCD Indicators	Load level / Battery level, Battery, Utility Power, Inverter, Bypass, Overload, Fault						
Audible Alarm	Bypass, On battery mode, Battery low, Overload, Fault						
Communications	RS-232 Serial Interface; Intelligent Slot; OPTIONS:WEBPOWER SNMP/WEB card, AS400 card or WinPower CMC						
Network Surge Protection	RJ45 I/O port available for network or Fax/Modem						
Environmental	Operating Temperature	0~40℃					
	Operating Humidity	20 ~ 90% non-condensing					
Main Unit	Net Weight(kg)	13.9	28.5(3U) 8.5(2U)	29.6(3U) 10(2U)	7.5	8.9	10.5
	Dimensions L*W*H(mm) (handle)	483*467*88(2U)	483*467*88(2U) 484*634*134(3U) Internal Batteries)	483*467*88(2U) 484*634*134(3U) Internal Batteries)	483*467*88(2U)	483*467*88(2U)	483*467*88(2U)
	Dimensions L*W*H(mm) (without handle)	483*429*88(2U)	483*429*88(2U) 484*595*134(3U) Internal Batteries)	483*429*88(2U) 484*595*134(3U) Internal Batteries)	483*429*88(2U)	483*429*88(2U)	483*429*88(2U)
Battery Pack	Type	Internal Batteries			External Battery Pack	External Battery Pack	External Battery Pack
	Nominal DC Voltage	36VDC	96VDC	96VDC	36VDC	96VDC	96VDC
	Battery Numbers & Capacity	3Pcs 12V7AH	8Pcs 12V7AH	8Pcs 12V7AH	Depending on the capacity of external battery packs		
	Backup Time(Full load)	6 min	7 min	5 min	Depending on the capacity of external battery packs		
	Recharge Time	5hrs to 90%	5hrs to 90%	5hrs to 90%	Depending on the capacity of external battery packs		
	Charging Current(Max.)	1.0A	1.0A	1.0A	5/7A±1A	5/7A±1A	5/7A±1A
	Charging Voltage	41.1Vdc±0.4A	110Vdc±0.4A	110Vdc±0.4A	41.1Vdc±0.4A	110Vdc±0.4A	110Vdc±0.4A
	Net Weight(kg)	—	25.3	25.3	—	—	—
	Dimensions L*W*H(mm) (handle)	—	483*467*88(2U)	483*467*88(2U)	—	—	—
	Dimensions L*W*H(mm) (without handle)	—	483*429*88(2U)	483*429*88(2U)	—	—	—

◆ Product specifications are subject to change without further notice.

RM6~10K Series

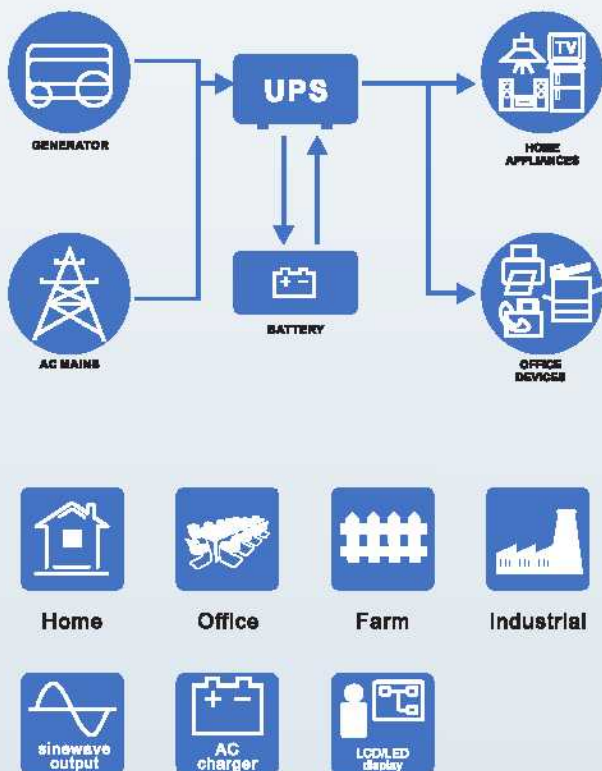


RM Series 6KVA~10KVA Rack mount High frequency online UPS is specially designed for servers, data-center critical network devices, sensitive electronic equipment, telecom, bank, hospital, bureau, traffic, public security, ATM and so on.

Features:

- ◆ True online double conversion technology with advanced Microprocessor Control.
- ◆ PWM Technology with IGBT.
- ◆ LED/LCD Indicators display Detailed Real-Time UPS Status and parameters.
- ◆ Set Output Voltage, Frequency parameters and bypass function on the display.
- ◆ Advanced MCU microprocessor control technology and DSP technology ensure long life reliability.
- ◆ Wide input voltage range, Zero transfer time.
- ◆ Rack mount 19" design to save space.
- ◆ Excellent Protection against over voltage, over load, over current, over charge and so on.
- ◆ Input L and N lines reverse wiring detection, Auto start when AC back.
- ◆ DC start function, Input PFC revise function.
- ◆ Humanization bypass output, can be adjustable.
- ◆ Smart RS232 communication with monitoring software.
- ◆ Intelligent solt available for AS-400 Dry contact and SNMP card Remote control.
- ◆ Strong antijamming capability.
- ◆ Available to work with generators.
- ◆ Lightning, surge, short circuit, Network/fax/modem surge protection.
- ◆ LED/LCD display panel optional.

Application:



Specifications

High Frequency Online UPS

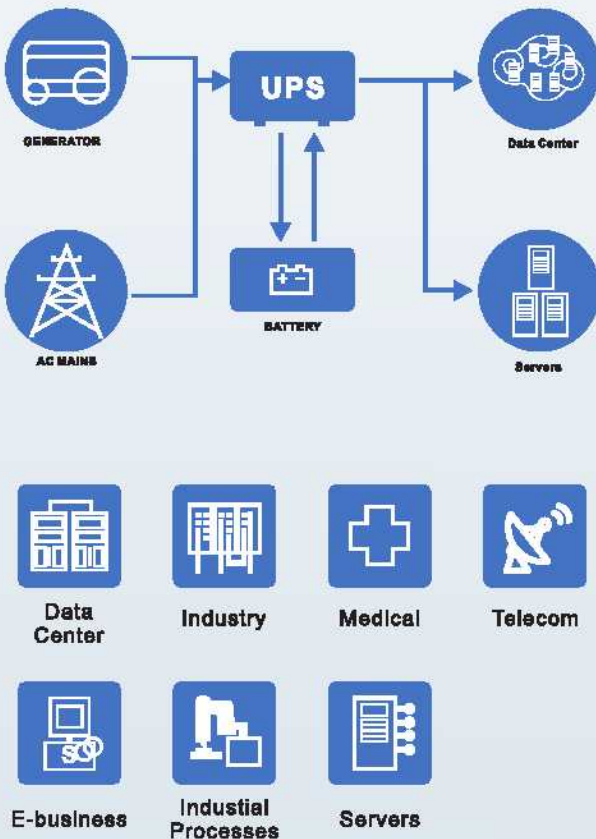
LED Model		RM6K-E	RM6KL-E	RM10K-E	RM10KL-E
LCD MODEL		RM6K-C	RM6KL-C	RM10K-C	RM10KL-C
Rated Power	VA	6KVA	6KVA	10KVA	10KVA
	W	4.8KW	4.8KW	8KW	8KW
Input	Phase	Single Phase with Ground			
	Nominal Voltage	220/230/240Vac			
	Voltage Range	120-275VAC			
	Frequency Range	50/60Hz(adjustable) 50Hz:46~54Hz; 60Hz:56~64Hz			
	Power Factor	0.97			
	Connection	Terminal Block			
Output	Phase	Single Phase			
	Voltage	220/230/240VAC \pm 1%			
	Frequency	50/60Hz (Adjustable); 50Hz AC Mode: Follow AC Mode (AC Range 46~54Hz); Battery Mode: 50Hz (1 \pm 0.1%); 60Hz AC Mode: Follow AC Mode (AC Range 56~64Hz); Battery Mode: 60Hz (1 \pm 0.1%);			
	Waveform	Pure Sine Wave			
	Overload Capacity	105%~125% 1sec 125%~135% 30sec >135% 0.5sec			
	Current Crest Ratio	3:1			
	Connections	IEC320-10A*2 and Terminal Block			
	Bypass	Automatic Transfer Before UPS Power-on	on overload and UPS failure Default"NO", user adjustable to "YES"		
Transfer Time		Zero			
LED/LCD Indicators		Load level / Battery level, Battery, Utility Power, Inverter, Bypass, Overload, Fault			
Audible Alarm		Bypass, On battery mode, Battery low, Overload, Fault			
Communications		RS-232 Serial Interface; Intelligent Slot; OPTIONS:WEBPOWER SNMP/WEB card, AS400 card or WinPower CMC			
Network Surge Protection		RJ45 I/O port available for network or Fax/Modem			
Environmental	Operating Temperature	0~40°C			
	Operating Humidity	20 ~ 90% non-condensing			
Main Unit	Net Weight(kg)	17.7	18.3	19.7	20.3
	Dimensions L*W*H(mm) (handle)	484*653*134	484*653*134	484*653*134	484*653*134
	Dimensions L*W*H(mm) (without handle)	484*614*134	484*614*134	484*614*134	484*614*134
Battery Pack	Type	External Battery Pack			
	Nominal DC Voltage	192VDC			
	Battery Numbers & Capacity	16PCS/7AH			
	Backup Time(Full load)	Depending on the capacity of external battery packs			
	Charging Current(Max.)	2A			
	Charging Voltage	219V			
	Net Weight(kg)	44.5			
	Dimensions L*W*H(mm) (handle)	484*621*134			
	Dimensions L*W*H(mm) (without handle)	484*582*134			

◆ Product specifications are subject to change without further notice.

93PM Series



Application:



Application IDC (Internet Data Center), computing center, ISP (Internet Service Provider), Telecom, Finance bank and securities, Tax, hospital system, industrial automation, precision equipment, etc.

93PM series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 15KVA to 300KVA which delivers the best of combination of reliability, hot-swappable and flexibility. With the latest IGBT three-level technology and DSP control, 93PM achieves a high input power factor, low THDi Modular design with N+X redundancy and online hot swapping, easy to expand the capacity Full DSP control of high stability, reliability and safety Integrated IGBT module with improved performance and reduced size.

Features:

- ◆ Superior energy saving.
Efficiency > 96% at 50%-75% rated load, and > 95% at 25% rated load; Input PF > 0.99 input THDi < 3%
- ◆ Easy-to-install:
Top or bottom cabling, no need of input cabling cabinet.
- ◆ Easy-to-maintain:
Full front access, UPS failed part can be replaced shortly.
- ◆ Easy-to-modify:
The number of battery cells can be configured flexibly, so the original batteries can be used when modifying the legacy system; moreover, the battery cell can be replaced in time when it fails without interrupting the normal operation of UPS.
- ◆ Extra large LCD that can display 12 language (Chinese, English, Russian, French, Spanish and so on).
- ◆ Provide large LCD touch screen (optional).
- ◆ Each UPS module provide 4.5KW charge capacity. equivalent to 10 to 12A.
- ◆ Advanced DSP full digital control technologies realize higher system stability, online capacity expansion and maintenance.
- ◆ Advanced distributed active parallel technology realizes parallel operation of 4 UPS units and online capacity expansion without centralized bypass cabinet.
- ◆ Adaptive to severe power grid environment due to extra wide input voltage and frequency ranges.
- ◆ Intelligent battery management maintains battery automatically to prolong the battery life.
- ◆ The machine system for modular structure, consists of 1 to 10 module's biggest single module to 30kw.
- ◆ UPS power module supporting hot swappable, capacity upgrade extremely simple.
- ◆ Super ability for overload and short circuit, ensure the system stability and safety under the limit state of system.

Specifications

Modular UPS

Model	93PM 15-1200KVA	
Capacity	15-1200KVA	
Main Input	Input voltage	380V/400V/415V
	Input Frequency Range	50/60HZ
	Power Factor	Full load >0.99,Half load >0.98
	THDi	THDi<3%
	Input Power Soft-start Function	5-30s settable
	Input Voltage Ranges	228v-476v,-20%~25% at Full load;linear derating at -25%~40%; can tack 70% load at -40%
	Frequency Range	40-70Hz
Battery	Battery Voltage	±240VDC(Default),12V Battery 30~40pcs can be choose
	Charge Voltage accuracy	±1%
Bypass	Bypass Input Voltage	380/400/415VAC 3-phase 4-wire
	Voltage Range	Default value is -20%~+15%;-40%,-30%,-10%~+10%,+15%,other ranges can be set via software
	Overload Capacity	Long term at 135% rated load,150%<load<180% more than 10min,load>1000% 100ms
Output	Inverter Output Voltage	380/400/415VAC 3-phase 4-wire
	Voltage Accuracy	±0.5%(balanced load),±1%(unbalanced load)
	THDV	THDV<1%(linear load),THDV<3%(nonlinear load),
	Power Factor	0.9/1.0
	Three Phase Angle accuracy	120°±0.5°
	Current Crest Ratio	3:1
	Overload Capacity	110%1h, 125%10mins, 150%1mins,> 150%200ms
	Transfer Time	0ms,15ms(Eco Mode)
System	Frequency	50Hz/60Hz(Settable)
	Mains synchronizalon range	±2Hz(Default value),adjustable with step of 0.5Hz within range of +/-0.5Hz-3Hz
	Protection Level	IP20
	Communicaion Ports	RS232,RS485,dry contact,SNMP card,EPO,generator port
	System Efficiency	>96% at load above 50%,>95% at load above 25%
	Operation Temperature	0-40℃
	Storage Temperature	-25℃~70℃(without battery)
	Humidity	0-95%(no-condensing)
	Noise(dB)	55-82dB,Adjusted with load
	Net Weight	15KVA power module:20KG 20KVA power module:20KG 30KVA power module:35KG 40KVA power module:35KG
	Dimension(WxDxH)mm	3 module cabinet 600x900x1135 6 module cabinet 600x900x1535 10 module cabinet 600x900x2000/900x900x2000(with side cabinet) power module 440x650x132(3U)-15KVA/20KVA/30KVA/40KVA

◆ Product specifications are subject to change without further notice.

93PM Configuration Scheme



Hot-swap Battery Module

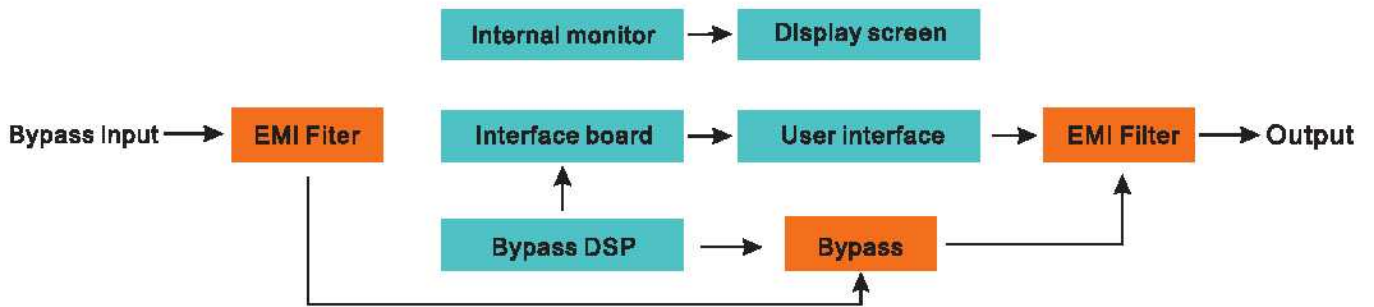
High Availability Configuration Structure

Static switch module:

- System standard configuration module
- Adop SCR and AC contactor in parallel
- High reliability, strong overload ability: 1000% for 1min
- Transfer time less than 1ms
- Have strong self-test, inter-lock and full-protection function



STS Module

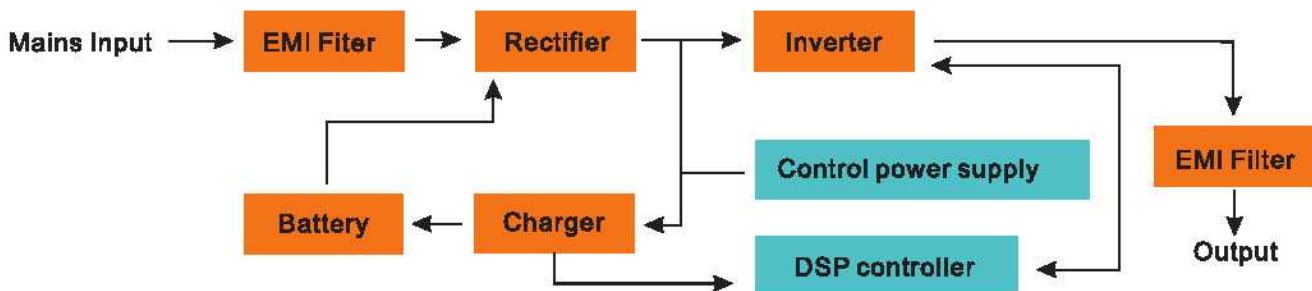


Power Module:

- Freedom choice of capacity configuration according demand, easy to expand
- Online double-conversion design to ensure the output quality
- Each module has independent digital intelligent control
- Each module can work in dependently
- Each module has a separate charging system
- All modules can be hot-swappable, easy for online maintenance
- Each UPS module provide 4.5KW charge capacity. equivalent to 10 to 12A



Power Module



93PM Display screen

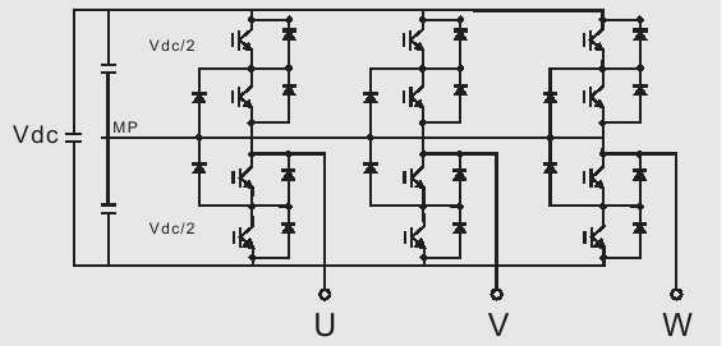


- A** Rectifier indicator
- B** Battery indicator
- C** Bypass Indicator
- D** Inverter indicator
- E** Load indicator
- F** Alarm indicator
- G** Buzzer
- H** EPO button
- I** Inverter start button
- J** Inverter shutdown button
- K** Fault clear button
- L** Alarm mute button
- M** LCD(can display 12 kinds of language)
- N** F1~F5 Menu keys

Excellent Electrical Performance

The three level inverter technology

3 ph/4w three level MOSFET inverter: use lower switch frequency get higher level transformer output voltage, therefore switch consumption is small and get high efficiency, at the same time can improve EMI filter capacity and get lower input THDI.

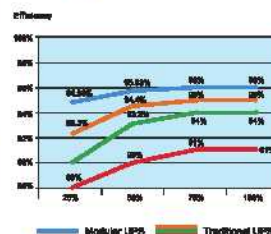


Modular UPS compared with traditional UPS			
	Modular UPS	1+1Parallel	Tradition UPS
Redundancy	0-800%	100%	—
Reliability	Ultrahigh	High	General
Expandable	High Expandable	—	—
The highest efficiency	≥98%	≥75%	92%
Repair Method	Module Hot-Swap	Circuit board and parts	Circuit board and parts
MTTR	<5min	>1Hour	>1Hour
Input THDI	<3%	12-33%	12-33%
Input PF	>3%	0.7~0.99	0.7~0.99
Foot print	Less	High	General
Upfront investment proportion	Low	High	Middle
Cost performance	High	Low	—
Price	Moderation	High	Low

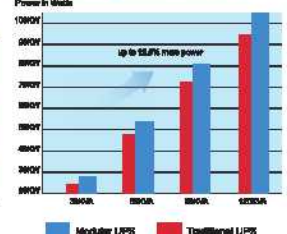
The input current is sine wave and PF is 1

150KVA Input THD and PF with 400Vrating voltage		
	100% linear	100% nonlinear
THDi_A(%)	2.760	3.430
THDi_B(%)	2.830	2.800
THDi_C(%)	2.650	2.420
PF_A	0.9999	0.9999
PF_B	0.9999	0.9999
PF_C	0.9999	0.9999

Efficiency contrast form



Output power factor contrast





PROFESSIONAL POWER SUPPLIER

UPS

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