



On Line
Uninterruptible
Power Supply



On Line Tower UPS (1-20KVA)



Application Field

IT infrastructure:

Small server and workstation, router and switch, monitoring equipment.

- Automation system:
 ATM, TVM, SCADA, Railway and Metro signal system.
- Office and business equipment:
 PC, Printer, Scanner, POS, Telephone and Fax.

Product Feature

Zero Transfer time

True Double Conversion Online UPS, Provide most comprehensive protect mission critical equipment from wide range power quality issues.

DSP Digital Control Based

Advance DSP base digital control bring high performance of high input Power factor, low distortion, supply the load with perfect sine wave AC power supply.

Ultra Wide Input Mains range

Strong compatible with ultra with electric environment, stay well with ultra wide range mains of $90V\sim300V$, $40\sim70Hz$, dramatically reduce battery discharge, prolong battery life.

Best Loading Capability

Up to 0.9 Output Power Factor, 50/60 Hz Automatically adapting, selectable voltage, perfectly match all kind of application.

Genset Compatible

Capable of work with wide range of Genset, isolate fluctuation and noise from Genset, provide stable and clean power supply to the user equipment.

High Input power factor

Thanks to digital controlled PFC Technology, >0.99 input power factor, effectively avoid power pollution, save energy expense for customer.

Reliable design

Made with strong Glass fiber base (FR4) double side PCB, company with large span component, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating, avoid dust accumulation, improve resistant to corrosion.

Open to customization

Based on powerful controller and open architecture, the product is able to be customized to match need of integration of automatic system or intelligent supervisory system.

Accessories









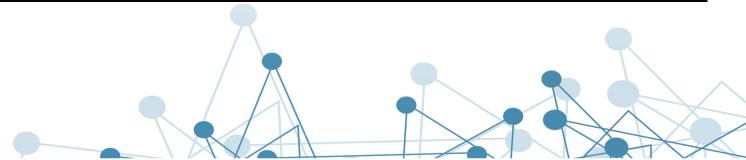




And more.....

HV Series On Line Tower UPS Specification

Model		HC1K	HC1KS	HC2K	HC2KS	нсзк	HC3KS	HC6K	HC6KS	HC10K	HC10KS	
Capacity	VA/W	1KVA/900W 2KVA/1.8kW 3KVA/2.7KW						6KVA/5.4KW 10KVA/9KW				
7	Гороlоду		Double Conversion Online UPS									
	Phase	Single Phase Input Single Phase Output										
	Wiring	L/N+PE										
	Rated Voltage	208/220/230/240VAC										
Mains Input	Voltage Range	90~300VAC										
	Frequency Range	40Hz-70Hz										
	Input Power Factor	≥0.99										
	Wiring		L/N+PE									
	Output Voltage					2	08/220/230)/240VAC				
	Voltage Regulation		±1%									
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)										
AC Output	Waveform						Pure Sine	e Wave				
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)							· · · · · · · · · · · · · · · · · · ·	ear Load) Linear Load)		
	Overload capability	1Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load						10Min@105%~125%Rated Load 60Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load				
	AC/AC Mode	88	88% 89% 90%						>9	93%		
Efficiency	DC/AC Mode	86	%	87	7%	88%		>91%				
	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	72VDC Internal	96VDC External	144/192VDC Internal	192/240VDC External	192VDC Internal	192/240VDC External	
Battery &	Battery Capacity	12V/7AH x2pcs	External Battery	12V/7AH x4pcs	External Battery	12V/7AH x6pcs	External Battery	12V/7AHx12Pcs / 12V/7AHx16Pcs	External Battery	12V/7AHx16P / 12V/9AHx16P	External Battery	
Charger	Backup Time	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Ha Load	Depends	
	Charging Current	Standard Model with Internal Battery:1A Long Backup Time Model :4A										
	Dimension		HC1KS: 145*220*250mm HC1K/HC2KS: 145*220*318mm HC2K: 145*220*390mm HC3K/HC3KS/HC6KS: 190*318*368mm					HC10kS: 190*340*528mm HC6K-12BAT: 190*360*528mm HC6K-16BAT/HC10K: 190*470*534mm				
Physical	Weight (kg)	8.4	3.5	14	4.5	20.7	7.7	HC6K-12BAT: 36.7kg HC6K-16BAT: 48.3kg	9.9	HC10K-7AH*16: 50.1kg HC10K-9AH*16: 63kg	13.5	
	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status										
	Standards Communication Interface	1. RS232 PORT										
НМІ	Optional Extension Card	NAS shu 3. MODBU 4. USB Ca	utdown S Card rd			e UPS via S			, PC Monitor	Software , Suppo	rt Server /	
Ononetic	Temperature range			,			-10~5	60℃				
Operating Environment	Relative Humidity					0-98	3% (Non-c	ondensing)				
Endurance	Acoustics Noise						<55dB @ ^	1 meters				



Mo	odel	H3C10KS	H3C15KS	H3C20KS				
Capacity	VA/W	10KVA/9KW	15KVA/13.5KW	20KVA/18KW				
Тор	ology		Double Conversion Online UPS					
Ph	ase		e Phase Input Single Phase Outpu 3 Phases Input Single Phase Outpu					
	Wiring		Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE					
	Rated Voltage		208/220/230/240VAC					
AC Mains Input	Voltage Range		Line-Neutral 90~300VAC Line-Line 150~500VAC					
	Frequency Range		40Hz-70Hz					
	Input Power Factor		≥0.99					
	Wiring		L/N+PE					
	Output Voltage	208/220/230/240VAC						
	Voltage Regulation	±1%						
AC Output	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)						
, to surput	Waveform	Pure Sine Wave						
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)						
	Overload capability	10Min@105%~125%Rated Load 60Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load						
Efficiency	AC/AC Mode	>94%						
Efficiency	DC/AC Mode	>92%						
	Rated Battery Voltage	192/240VDC External Battery						
Battery &	Battery Capacity	External Battery Depends						
Charger	Backup Time	External battery bepends						
	Charging Current	Long Backup Time Model :4A / 8A (Optional)						
Physical	Dimension	H3C10kS: 190*340*528mm H3C15/20kS: 239*528*555mm						
	Weight (kg)	14.6	25.9	25.9				
	LCD Display	Input Mains Voltage	, Frequency, Load level, Operation	Mode, Health Status				
НМІ	Standards Communication Interface	RS232 PORT SNMP Card: Support remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software, Support Server / NAS shutdown						
	Optional Extension Card	3. MODBUS Card 4. USB Card 5. Relay Card (Needs assembly according to order request before shipping)						
Operation	Temperature range		-10~50℃					
Operating Environment	Relative Humidity		0-98% (Non-condensing)					
Endurance	Acoustics Noise		<60dB @ 1 meters					

LV Series On Line Tower UPS Specification

Mo	odel	LC1K	LC1KS	LC2K	LC2KS	LC3K	LC3KS			
Capacity	Capacity VA/W		1KVA/900W 2KVA/1.8KW				3KVA/2.7KW			
Тор	Topology		Double Conversion Online UPS							
Ph	ase		Sin	gle Phase Input	Single Phase Ou	tput				
	Wiring	1 phase 3wires (L / N+PE)								
	Rated Voltage	110/115/120/127VAC								
Mains Input	Voltage Range	Line-Neutral: 55~145VAC								
	Frequency Range			40Hz	-70Hz					
	Input Power Factor			≥0	.99					
	Wiring			1 phase	L/N+PE					
	Output Voltage			110/115/12	20/127VAC					
l	Voltage Regulation			±2	2%					
	Output Frequency		50/60±4H	Hz(Sync Mode) /	50/60Hz±0.1%(F	ree Run)				
AC Output	Waveform			Pure Sir	ne Wave					
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)								
	Overload capability	1Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load								
Efficiency	AC/AC Mode	88% 89% 90%								
Efficiency	DC/AC Mode	85	5%	86	5%	87	87%			
	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	72VDC Internal	96VDC External			
Battery	Battery Capacity	12V/7AH x2pcs	External Battery	12V/7AH	External Battery	12V/7AH	External Battery			
& Charger	Backup Time	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends			
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A								
Physical	Dimension	LC1KS: 145 * 220 * 250mm								
	Weight (kg)	8.4	3.5	14	4.5	20.7	7.7			
	LCD Display	Inpu	t Mains Voltage,	Frequency, Load	l level, Operation	n Mode, Health S	tatus			
	Standards Communication Interface	1. RS232 PORT								
НМІ	Optional Extension Card	2. SNMP Card: Support remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software, Support Server / NAS shutdown 3. CMC MODBUS Card, 4. USB Card 5. Relay Card (Needs assembly according to order request before shipping)								
Operating	Temperature range			-10~	50℃					
Environment	Relative Humidity			0-98% (Non-	condensing)					
Endurance	Acoustics Noise	0-98% (Non-condensing) <55dB @ 1 meters								

On Line Rack UPS (1-20kVA)





IT infrastructure:

Small server and workstation, router and switch, monitoring equipment.

- Automation system:
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 PC, Printer, Scanner, POS, Telephone and Fax.

Product Feature

BATTERY MODULE

Zero Transfer time

True Double Conversion Online UPS, Provide most comprehensive protect mission critical equipment from wide range power quality issues.

DSP Digital Control Based

Advance DSP base digital control bring high performance of high input Power factor, low distortion, supply the load with perfect sine wave AC power supply.

Ultra Wide Input Mains range

Strong compatible with ultra with electric environment, stay well with ultra wide range mains of 90V~300V, 40~70Hz ,dramatically reduce battery discharge , prolong battery life.

Best Loading Capability

Up to 0.9 Output Power Factor, 50/60 Hz Automatically adapting, selectable voltage, perfectly match all kind of application.

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Capable of work with wide range of Genset, isolate fluctuation and noise from Genset, provide stable and clean power supply to the user equipment.

High Input power factor

Thanks to digital controlled PFC Technology, >0.99 input power factor, effectively avoid power pollution, save energy expense for customer.

Reliable design

Made with strong Glass fiber base (FR4) double side PCB, company with large span component, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating, avoid dust accumulation, improve resistant to corrosion.

Open to customization

Based on powerful controller and open architecture, the product is able to be customized to match need of integration of automatic system or intelligent supervisory system.

Accessories













And more.....

HV Series On Line Rack UPS Specification

Model		HC1KR	HC1KRS	HC2KR	HC2KRS	HC3KR	HC3KRS	HC6KRS	HC10KRS	
Capacity	VA/W	1KVA	/900W	2KVA/	1.8KW	3KVA	2.7KW	6KVA/5.4KW	10KVA/9KW	
Topology		Double Conversion Online UPS								
Р	Phase				Single Phas	se Input Sin	gle Phase O	utput		
	Wiring					L/N+PE	Ξ			
	Rated Voltage	208/220/230/240VAC								
Mains Input	Voltage Range	90~300VAC								
	Frequency Range		40Hz-70Hz							
	Input Power Factor					≥0.99				
	Wiring					L/N+PE	Ξ			
	Output Voltage				20	08/220/230/2	240VAC			
	Voltage Regulation					±1%				
AC Output	Output Frequency			50/60	±4Hz(Sync	Mode) / 50/	60Hz±0.1%(Free Run)		
AC Output	Waveform					Pure Sine \	Vave			
	Distortion (THDV%)		<7	<2%(Linea %(None-Lir					ear Load) Linear Load)	
	Overload capability		1Min@ 30Sec.	@105%~125 .@125%~15 Sec.@>150%	10Min@105%~125%Rated Load 60Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load					
Efficiency	AC/AC Mode	88% 89% 90% >93%						3%		
Efficiency	DC/AC Mode	86	%	87	·%	88	3%	>91%		
	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	48VDC Internal	96VDC External		I Battery	
Battery &	Battery Capacity	12V/7AH x2pcs	External Battery	12V/7AH x4pcs	External Battery	12V/9AH x4pcs	External Battery	External Battery Depends		
Charger	Backup Time	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends			
	Charging Current				n Internal Ba ime Model :	•		Long Backup 1	ime Model :4A	
Physical	Dimension Physical			1KRS/HC2k 8(W)*88(2U) (2U)(H)*500	without Into Batter	2U)(H)*500(D)mm ernal Battery y Pack: J)(H)*500(D)mm				
	Weight (kg)	11.1	6.7	15.3	7.3	19.8	8.7	HC6KRS : 10.8kg HC10KRS: 12.6kg Battery Pack: 7AH*16pcs: 40.8k		
	LCD Display		Input	Mains Volta	ge, Frequer	ncy, Load lev	vel, Operatio	n Mode, Health Stat	us	
	Standards Communication Interface	1. RS232 PORT								
НМІ	Optional Extension Card	Support S 3. MODBUS 4. USB Care	2. SNMP Card: Support remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software, Support Server / NAS shutdown 3. MODBUS Card 4. USB Card 5. Relay Card (Needs assembly according to order request before shipping)							
0	Temperature range					-10~50	C			
Operating		0-98% (Non-condensing)								
Operating Environment Endurance	Relative Humidity				0-989	% (Non-cor	ndensing)			

Capacity VA/W Topology Phase Wiring Rated Voltage Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%) Overload capability								
Topology Phase Wiring Rated Voltage Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	Double Conversion Online UPS Single Phase Input Single Phase Output OR 3 Phases Input Single Phase Output Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE 208/220/230/240VAC Line-Neutral 90~300VAC							
Phase Wiring Rated Voltage Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	Single Phase Input Single Phase Output OR 3 Phases Input Single Phase Output Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE 208/220/230/240VAC Line-Neutral 90~300VAC							
AC Mains Input Rated Voltage Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	3 Phases Input Single Phase Output Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE 208/220/230/240VAC Line-Neutral 90~300VAC							
AC Mains Input Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE 208/220/230/240VAC Line-Neutral 90~300VAC							
AC Mains Input Voltage Range Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	208/220/230/240VAC Line-Neutral 90~300VAC							
Frequency Range Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)								
Input Power Factor Wiring Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)								
AC Output Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	40Hz-70Hz							
Output Voltage Voltage Regulation Output Frequency Waveform Distortion (THDV%)	≥0.99							
AC Output Output Frequency Waveform Distortion (THDV%)	L/N+PE							
AC Output Output Frequency Waveform Distortion (THDV%)	208/220/230/240VAC							
Waveform Distortion (THDV%)	±1%							
Distortion (THDV%)	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)							
	Pure Sine Wave							
Overland canability	<2%(Linear Load) <7%(None-Linear Load)							
Overload capability	10Min@105%~125%Rated Load 60Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load							
AC/AC Mode	>94%							
Efficiency DC/AC Mode	>92%							
Rated Battery Voltage	192/240VDC External Battery							
Battery Capacity &	Evternal Pattery Depends							
Charger Backup Time	External Battery Depends							
Charging Current	Long Backup Time Model :4A / 8A (Optional)							
Dimension Physical	H3C10KRS: 438(W)*132(3U)(H)*500(D)mm H3C15KRS/H3C20KRS: 438(W)*176(4U)(H)*530(D)mm							
Weight (kg) 14.4	24.1 24.1							
LCD Display Input Ma	ains Voltage, Frequency, Load level, Operation Mode, Health Status							
	RS232 PORT SNMP Card: Support remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software, Support Server / NAS shutdown							
Optional Extension Card 3. MODBUS Card 4. USB Card 5. Relay Card (Need								
Operating Temperature range	ds assembly according to order request before shipping)							
Environment Endurance Relative Humidity	ds assembly according to order request before shipping) -10~50°C							
Acoustics Noise								

LV Series On Line Rack UPS Specification

Mo	odel	LC1KR	LC1KRS	LC2KR	LC2KRS	LC3KR	LC3KRS			
Capacity	VA/W	1KVA/900W 2KVA/1.8KW 3KVA/2.7KW								
Тор	ology	Double Conversion Online UPS								
Ph	ase		Sin	gle Phase Input	Single Phase Ou	tput				
	Wiring	1 phase 3wires (L / N+PE)								
	Rated Voltage	110/115/120/127VAC								
AC Mains Input	Voltage Range	Line-Neutral: 55~145VAC								
	Frequency Range			40Hz	-70Hz					
	Input Power Factor			≥0	.99					
	Wiring			1 phase	L/N+PE					
	Output Voltage			110/115/12	20/127VAC					
	Voltage Regulation			±2	2%					
	Output Frequency		50/60±4l	Hz(Sync Mode) /	50/60Hz±0.1%(F	ree Run)				
AC Output	Waveform			Pure Sir	ne Wave					
	Distortion (THDV%)	<2%(Linear Load)								
	Overload capability	<7%(None-Linear Load) 1Min@105%~125%Rated Load 30Sec.@125%~150%Rated Load 0.5Sec.@>150%Rated Load								
	AC/AC Mode	88	3%		9%	90)%			
Efficiency	Efficiency DC/AC Mode 85%			86	5%	87%				
	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	48VDC Internal	96VDC External			
Battery &	Battery Capacity	12V/7AH x2pcs	External Battery	12V/7AH x4pcs	External Battery	12V/9AH x4pcs	External Battery			
α Charger	Backup Time	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends	>6mins @ Half Load	Depends			
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A								
Physical	Dimension		.C3KR: 438(W)* R/LC1KRS/LC2KI				m			
	Weight (kg)	11.1	6.7	15.3	7.3	19.8	8.7			
	LCD Display	Inpu	ıt Mains Voltage,	Frequency, Load	l level, Operation	Mode, Health S	tatus			
	Standards Communication Interface			1. RS23	32 PORT					
НМІ		 SNMP Card: Support remote monitor the UPS via Smart Phone APP, Web page, PC Monitor Software, Support Server / NAS shutdown CMC MODBUS Card, USB Card Relay Card (Needs assembly according to order request before shipping) 								
Operating	Temperature range			-10~	-50 ℃					
Environment	Relative Humidity			0-98% (Non-	condensing)					
Endurance	Acoustics Noise	<55dB @ 1 meters								

On Line UPS

For the UPS, in order to keep UPS working in a good condition, please make sure that total power capacity of your appliances is 20% less than UPS rated power capacity. If the UPS is overloaded, please remove the unnecessary loads one by one until the UPS load is less than 100%.

Advise Appliances Quantity for An Office

Load Option	3KVA UPS	6KVA UPS	10KVA UPS
Computer	5~6	10~12	20~24
Printer	1~2	2~4	4~8
Server	1	1	1

Backup Time

Power	Battery spec
Power Capacity	12V 7Ah
3KVA	Half Load ≥ 8min, Full Load ≥ 3min(standard)
6KVA	Half Load ≥ 6min, Full Load ≥ 2min(standard)
10KVA	rian Load > ornin, r un Load > zmin(standard)

FR4 Plate With Conformal Coating



Rack Battery Module Series Specification



Туре	Model	Specification	Recommended Matching Model		
	B3S2P7	12V/7AH*6pcs Batteries 2U-438*88*360mm	2U/R1KS for DC36V		
	B6S1P7	12V/7AH*6pcs Batteries 2U-438*88*360mm	2U/R2KS for DC72V		
	B3S2P9	12V/9AH*6pcs Batteries 2U-438*88*360mm	2U/R1KS for DC36V		
	B6S1P9	12V/9AH*6pcs Batteries 2U-438*88*360mm	2U/R2KS for DC72V		
	B4S2P7	12V/7AH*8pcs Batteries 2U-438*88*360mm	2U/R2KS/R3KS for DC48V		
Battery Module	B8S1P7	12V/7AH*8pcs Batteries 2U-438*88*360mm	2U/R3KS for DC96V		
	B4S2P9	12V/9AH*8pcs Batteries 2U-438*88*360mm	2U/R2KS/R3KS for DC48V		
	B8S1P9	12V/9AH*8pcs Batteries 2U-438*88*360mm	2U/R3KS for DC96V		
	B16S7	12V/7AH*16pcs Batteries 3U-438*132*500mm	2U/RS6KS/RS10KS for DC192V		
	B16S9	12V/9AH*16pcs Batteries 3U-438*132*500mm	2U/RS6KS/RS10KS for DC192V		
	B20S7	12V/7AH*20pcs Batteries 4U-438*176*500mm	RS10KS for DC240V		
	RR-35		Suitable for 600mm deep cabinets		
Pook Poils	RR-50	Standard rack host/battery box rails, 2mm high-strength steel plate, anti-	Suitable for 800mm deep cabinets		
Rack Rails	RR-75	rust paint	Suitable for 1000mm deep cabinets		
	RR-85		Suitable for 1100~1200mm deep cabinets		