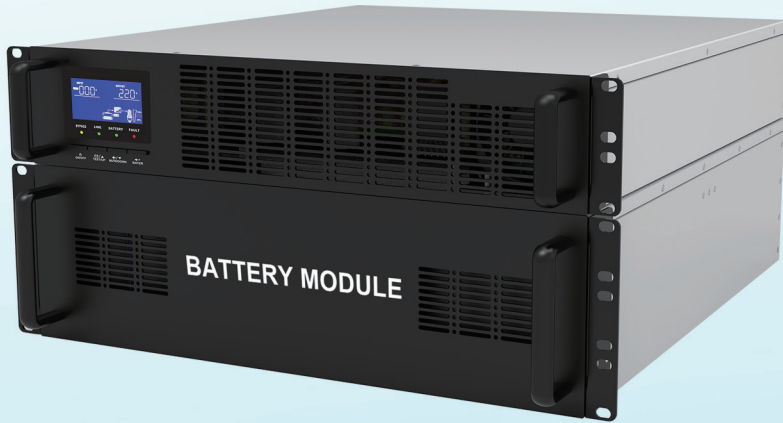




SOYANPOWER



On Line Uninterruptible Power Supply



On Line UPS

On Line Tower UPS (1-20KVA)



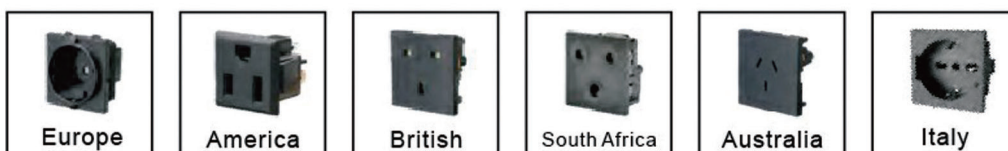
Application Field

- **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~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.
- **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	HC3K	HC3KS	HC6K	HC6KS	HC10K	HC10KS
Capacity	VA/W	1KVA/900W		2KVA/1.8kW		3KVA/2.7KW		6KVA/5.4KW		10KVA/9KW	
Topology		Double Conversion Online UPS									
Phase		Single Phase Input Single Phase Output									
Mains Input	Wiring	L/N+PE									
	Rated Voltage	208/220/230/240VAC									
	Voltage Range	90~300VAC									
	Frequency Range	40Hz-70Hz									
	Input Power Factor	≥0.99									
AC Output	Wiring	L/N+PE									
	Output Voltage	208/220/230/240VAC									
	Voltage Regulation	±1%									
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)									
	Waveform	Pure Sine Wave									
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)						<2%(Linear Load) <6%(None-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			
Efficiency	AC/AC Mode	88%		89%		90%		>93%			
	DC/AC Mode	86%		87%		88%		>91%			
Battery & Charger	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 Capacity	12V/7AH x2pcs	External Battery Depends	12V/7AH x4pcs	External Battery Depends	12V/7AH x6pcs	External Battery Depends	12V/7AHx12Pcs / 12V/7AHx16Pcs	External Battery Depends	12V/7AHx16P / 12V/9AHx16P	External Battery Depends
	Backup Time	>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load	
	Charging Current	Standard Model with Internal Battery:1A Long Backup Time Model :4A									
Physical	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			
	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
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status									
	Standards Communication Interface	1. RS232 PORT									
	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. MODBUS Card 4. USB Card 5. Relay Card (Needs assembly according to order request before shipping)									
Operating Environment Endurance	Temperature range	-10~50℃									
	Relative Humidity	0-98% (Non-condensing)									
	Acoustics Noise	<55dB @ 1 meters									

Model		H3C10KS	H3C15KS	H3C20KS
Capacity	VA/W	10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Topology		Double Conversion Online UPS		
Phase		Single Phase Input Single Phase Output OR 3 Phases Input Single Phase Output		
AC Mains Input	Wiring	Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE		
	Rated Voltage	208/220/230/240VAC		
	Voltage Range	Line-Neutral 90~300VAC Line-Line 150~500VAC		
	Frequency Range	40Hz-70Hz		
	Input Power Factor	≥0.99		
AC Output	Wiring	L/N+PE		
	Output Voltage	208/220/230/240VAC		
	Voltage Regulation	±1%		
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)		
	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%		
	DC/AC Mode	>92%		
Battery & Charger	Rated Battery Voltage	192/240VDC External Battery		
	Battery Capacity	External Battery Depends		
	Backup Time			
	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
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status		
	Standards Communication Interface	1. RS232 PORT 2. 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)		
Operating Environment Endurance	Temperature range	-10~50℃		
	Relative Humidity	0-98% (Non-condensing)		
	Acoustics Noise	<60dB @ 1 meters		

LV Series On Line Tower UPS Specification

Model		LC1K	LC1KS	LC2K	LC2KS	LC3K	LC3KS
Capacity	VA/W	1KVA/900W		2KVA/1.8KW		3KVA/2.7KW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	1 phase 3wires (L / N+PE)					
	Rated Voltage	110/115/120/127VAC					
	Voltage Range	Line-Neutral: 55~145VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	1 phase L/N+PE					
	Output Voltage	110/115/120/127VAC					
	Voltage Regulation	±2%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Pure Sine 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%	
	DC/AC Mode	85%		86%		87%	
Battery & Charger	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	72VDC Internal	96VDC External
	Battery Capacity	12V/7AH x2pcs	External Battery Depends	12V/7AH x4pcs	External Battery Depends	12V/7AH x6pcs	External Battery Depends
	Backup Time	>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load	
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A					
Physical	Dimension	LC1KS: 145 * 220 * 250mm LC1K/LC2KS: 145 * 220 * 318mm LC2K: 145 * 220 * 390mm LC3K/LC3KS: 190 * 318 * 368mm					
	Weight (kg)	8.4	3.5	14	4.5	20.7	7.7
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status					
	Standards Communication Interface	1. RS232 PORT					
	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 Environment Endurance	Temperature range	-10~50℃					
	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					

On Line Rack 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.

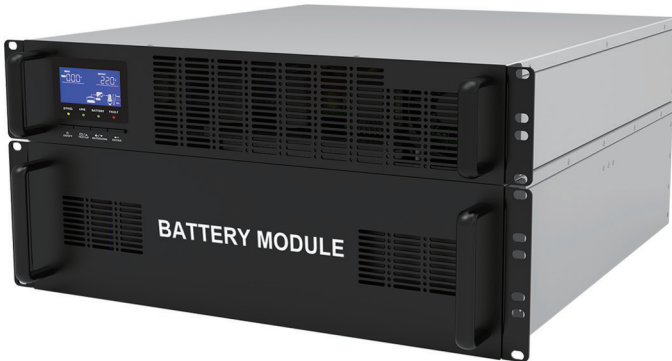
Product Feature

- **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~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.
- **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 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							
Phase		Single Phase Input Single Phase Output							
Mains Input	Wiring	L/N+PE							
	Rated Voltage	208/220/230/240VAC							
	Voltage Range	90~300VAC							
	Frequency Range	40Hz-70Hz							
	Input Power Factor	≥0.99							
AC Output	Wiring	L/N+PE							
	Output Voltage	208/220/230/240VAC							
	Voltage Regulation	±1%							
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)							
	Waveform	Pure Sine Wave							
	Distortion (THDV%)	<2%(Linear Load) <7%(None-Linear Load)						<2%(Linear Load) <6%(None-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	
Efficiency	AC/AC Mode	88%		89%		90%		>93%	
	DC/AC Mode	86%		87%		88%		>91%	
Battery & Charger	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	48VDC Internal	96VDC External	192/240VDC External Battery	
	Battery Capacity	12V/7AH x2pcs	External Battery Depends	12V/7AH x4pcs	External Battery Depends	12V/9AH x4pcs	External Battery Depends	External Battery Depends	
	Backup Time	>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load			
	Charging Current	Standard Model with Internal Battery:1A Long Backup Time Model :4A						Long Backup Time Model :4A	
Physical	Dimension	HC1KR/HC1KRS/HC2KR/HC2KRS/HC3KRS: 438(W)*88(2U)(H)*360(D)mm HC3KR: 438(W)*88(2U)(H)*500(D)mm Include Internal Battery						UPS: 438(W)*88(2U)(H)*500(D)mm without Internal Battery Battery Pack: 438(W)*88(2U)(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: 40.8kg	
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status							
	Standards Communication Interface	1. RS232 PORT							
	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. MODBUS Card 4. USB Card 5. Relay Card (Needs assembly according to order request before shipping)							
Operating Environment Endurance	Temperature range	-10~50℃							
	Relative Humidity	0-98%（Non-condensing）							
	Acoustics Noise	<55dB @ 1 meters							

Model		H3C10KRS	H3C15KRS	H3C20KRS
Capacity	VA/W	10KVA/9KW	15KVA/13.5KW	20KVA/18KW
Topology		Double Conversion Online UPS		
Phase		Single Phase Input Single Phase Output OR 3 Phases Input Single Phase Output		
AC Mains Input	Wiring	Single Phase L/N+PE OR 3 Phases (L1,L2,L3,N)/N+PE		
	Rated Voltage	208/220/230/240VAC		
	Voltage Range	Line-Neutral 90~300VAC Line-Line 150~500VAC		
	Frequency Range	40Hz-70Hz		
	Input Power Factor	≥0.99		
AC Output	Wiring	L/N+PE		
	Output Voltage	208/220/230/240VAC		
	Voltage Regulation	±1%		
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)		
	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%		
	DC/AC Mode	>92%		
Battery & Charger	Rated Battery Voltage	192/240VDC External Battery		
	Battery Capacity	External Battery Depends		
	Backup Time			
	Charging Current	Long Backup Time Model :4A / 8A (Optional)		
Physical	Dimension	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
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status		
	Standards Communication Interface	1. RS232 PORT 2. 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)		
Operating Environment Endurance	Temperature range	-10~50℃		
	Relative Humidity	0-98% (Non-condensing)		
	Acoustics Noise	<60dB @ 1 meters		

LV Series On Line Rack UPS Specification

Model		LC1KR	LC1KRS	LC2KR	LC2KRS	LC3KR	LC3KRS
Capacity	VA/W	1KVA/900W		2KVA/1.8KW		3KVA/2.7KW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
AC Mains Input	Wiring	1 phase 3wires (L / N+PE)					
	Rated Voltage	110/115/120/127VAC					
	Voltage Range	Line-Neutral: 55~145VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	1 phase L/N+PE					
	Output Voltage	110/115/120/127VAC					
	Voltage Regulation	±2%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Pure Sine 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%	
	DC/AC Mode	85%		86%		87%	
Battery & Charger	Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	48VDC Internal	96VDC External
	Battery Capacity	12V/7AH x2pcs	External Battery Depends	12V/7AH x4pcs	External Battery Depends	12V/9AH x4pcs	External Battery Depends
	Backup Time	>6mins @ Half Load		>6mins @ Half Load		>6mins @ Half Load	
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A					
Physical	Dimension	LC3KR: 438(W)*88(2U)(H)*500(D)mm Include Internal Battery LC1KR/LC1KRS/LC2KR/LC2KRS/LC3KRS: 438(W)*88(2U)(H)*360(D)mm					
	Weight (kg)	11.1	6.7	15.3	7.3	19.8	8.7
HMI	LCD Display	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status					
	Standards Communication Interface	1. RS232 PORT					
	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 Environment Endurance	Temperature range	-10~50℃					
	Relative Humidity	0-98% (Non-condensing)					
	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%.

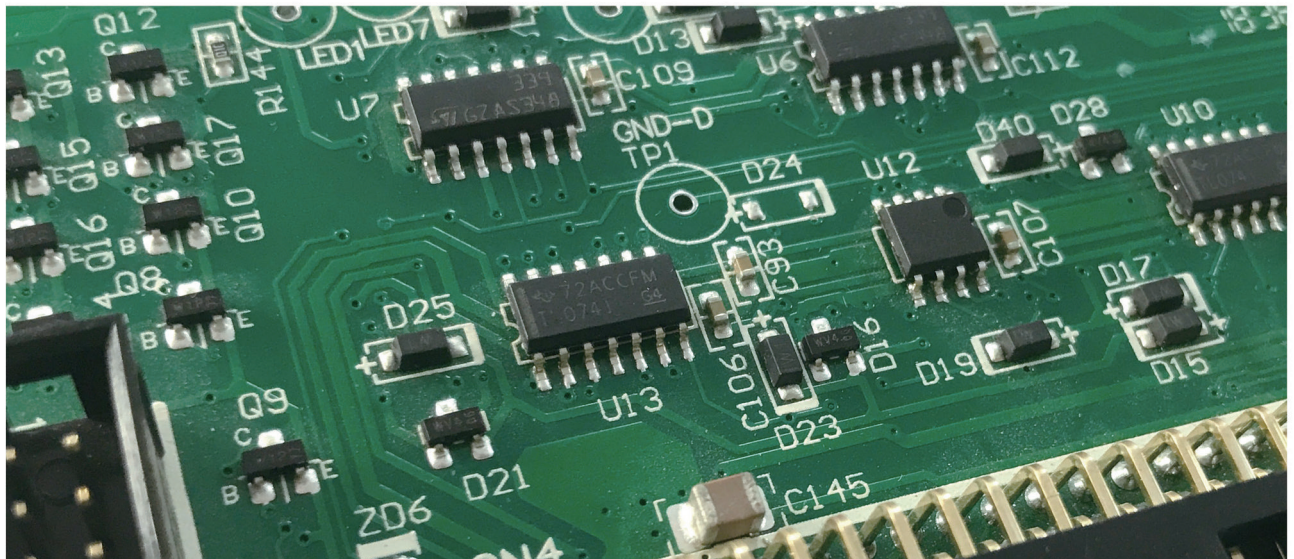
Advise Appliances Quantity for An Office

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 Capacity	Battery spec
	12V 7Ah
3KVA	Half Load $\geq$ 8min, Full Load $\geq$ 3min(standard)
6KVA	Half Load $\geq$ 6min, Full Load $\geq$ 2min(standard)
10KVA	

FR4 Plate With Conformal Coating



Rack Battery Module Series Specification



Type	Model	Specification	Recommended Matching Model
Battery Module	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
	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
Rack Rails	RR-35	Standard rack host/battery box rails, 2mm high-strength steel plate, anti-rust paint	Suitable for 600mm deep cabinets
	RR-50		Suitable for 800mm deep cabinets
	RR-75		Suitable for 1000mm deep cabinets
	RR-85		Suitable for 1100~1200mm deep cabinets