

# UPS



FENICE POWER

CATALOGUE  
Power everywhere



FENICE POWER CO., LTD  
Professional Manufacturer

>> UPS

>> INVERTER

>> OEM & ODM

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take real products as standards. Specifications and  
features can be changed without confirmation.

# COMPANY>> PROFILE



**Fenice Power Co., Ltd.** is a professional manufacturer with over 20 years of experience in designing and manufacturing power products. Headquartered in Shenzhen, **Fenice Power** is committed to providing high quality products and services to meet diverse customer requirements. With the customer-oriented spirit, Fenice Power is dedicated to continuously designing, manufacturing, marketing, and introducing a complete line of UPSs, inverters, and solar power products to the demanding power market.

We established a complete quality system ranging from material source, production, assembling to testing. Most of our products have been certified to meet international safety standards, such as CE (LVD/EMC), UL, FCC, BIS.

We have customers throughout the world including USA, Europe, South America, South Africa, Middle East, India, Turkey, Pakistan, Iran...and so on. We offer wide range quality products from standard specification to customization design. Fenice Power is becoming the most growthful China power supplier all over the world.

**Fenice Power** would like to cooperate with you and create a brilliant future based on the constant innovation spirit, uncompromising quality and efficient service.

## 03 LINE INTERACTIVE UPS

03.SNMP UPS BK SERIES  
AVR UPS 400VA-1000VA

05.BK SERIES  
AVR UPS 400VA-1000VA  
LED DISPLAY

07.BK SERIES  
AVR UPS 400VA-1000VA  
LCD DISPLAY

09.STR SERIES  
AVR UPS 850VA-3000VA  
LCD DISPLAY

11.STR SERIES  
AVR UPS 850VA-3000VA  
LEM DISPLAY

13.STR SERIES  
AVR UPS 850VA-3000VA  
LED DISPLAY

15.STR SERIES  
AVR UPS 850VA-3000VA  
LED DISPLAY

17.SNMP UPS ST SERIES  
AVR UPS 400VA-3000VA

19.ST SERIES  
AVR UPS 400VA-3000VA  
LCD DISPLAY

21.ST SERIES  
AVR UPS 400VA-3000VA  
LED DISPLAY

23.ST SERIES  
AVR UPS 400VA-3000VA  
LEM DISPLAY

## 25 HF ONLINE UPS

25.PXR SERIES  
HV RACK-MOUNT ONLINE UPS 1KVA-10KVA  
LCD DISPLAY

27.PXR SERIES  
LV RACK-MOUNT ONLINE UPS 1KVA-10KVA  
LCD DISPLAY

29.PXR SERIES  
HV RACK-MOUNT ONLINE UPS 10KVA-20KVA  
LCD DISPLAY

31.PX SERIES  
HV ONLINE UPS 1KVA-10KVA  
LCD DISPLAY

33.PX SERIES  
LV ONLINE UPS 1KVA-10KVA  
LCD DISPLAY

35.PX SERIES  
HV ONLINE UPS 10KVA-20KVA  
LCD DISPLAY

37.PX SERIES  
DP ONLINE UPS 6KVA-10KVA  
LCD DISPLAY

# CONTENTS

39.PX SERIES  
DP ONLINE UPS 10KVA-20KVA  
LCD DISPLAY

41.PX SERIES  
HV ONLINE UPS 1KVA-3KVA  
LI BATTERY

43.PX SERIES  
LV ONLINE UPS 1KVA-3KVA  
LI BATTERY

45.PX SERIES  
HV ONLINE UPS 6KVA-10KVA  
LI BATTERY

47.PX SERIES  
HV ONLINE UPS 10KVA-20KVA  
LI BATTERY

## 49 POE&DC UPS

49.POE SERIES  
DC UPS WITH POE 45W-120W

51.POE SERIES  
DC UPS WITH POE 17W-35W

## 53 PPS & INVERTER

53.PPS SERIES  
PORTABLE POWER STATION 1KVA-3KVA  
LCD DISPLAY

55.PPS SERIES  
PORTABLE POWER SUPPLY 100W

57.PPS SERIES  
PORTABLE POWER SUPPLY 500W

59.PPS SERIES  
PORTABLE POWER SUPPLY 500W

## 61 PURE SINE WAVE INVERTER

61.HALO SERIES  
PORTABLE POWER STATION 1KVA-2.5KVA  
LCD DISPLAY

## 63 SOLAR INVERTER

63.SV SERIES  
HOME SOLAR INVERTER 1200VA/2400VA  
LEM DISPLAY

65.MV SERIES  
HOME INVERTER 1200VA/2400VA  
LEM DISPLAY

## 67 VRLA BATTERY

67.VRLA BATTERY NP SERIES  
HORIZONTAL UPS

## 69 HORIZONTAL UPS

69.HT SERIES  
AVR UPS 400VA-1000VA  
LCD DISPLAY

71.HT SERIES  
AVR UPS 400VA-1000VA  
LED DISPLAY

73.HT SERIES  
AVR UPS 400VA-1000VA  
LEM DISPLAY



## Main Features

- LCD display or LED display for option;
- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;

## Function diagram

## Rear Panel



## Specifications

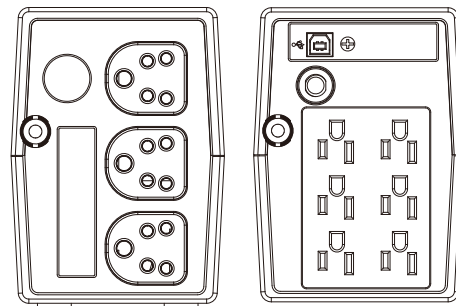
MODEL	BK450	BK650	BK850	BK1000B
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145VAC or 162-290VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	297*101*142			
Net Weight (kgs)	3.7	4.2	4.9	4.9
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



### Main Features

- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);
- Optional RS232/USB communication port and RJ11/RJ45 protection.



### Rear Panel

- AC input;
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Applications:



PC



Monitor



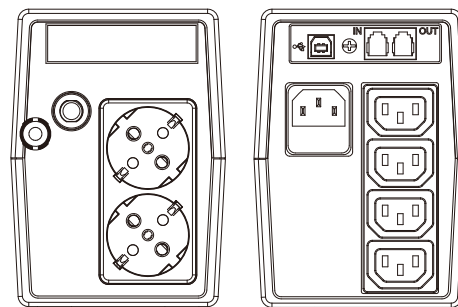
ADSL



POS



Home Appliance



### Specifications

MODEL	BK450	BK650	BK850	BK1000B
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145VAC or 162-290VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	297*101*142			
Net Weight (kgs)	3.7	4.2	4.9	4.9
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

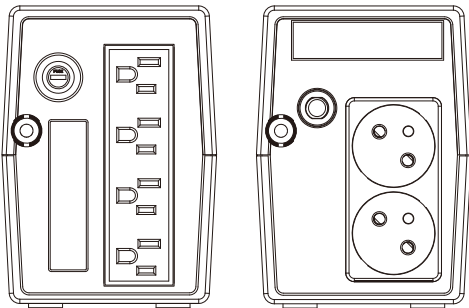
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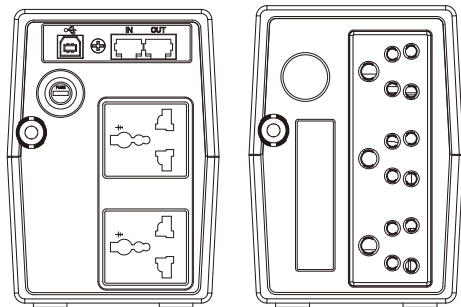
Main Features

- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);
- Optional RS232/USB communication port and RJ11/RJ45 protection.



Rear Panel

- AC input;
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).



Applications:



Specifications

MODEL	BK450	BK650	BK850	BK1000B
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120VAC or 220/230/240 VAC			
Voltage Range	140-300VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	297*101*142			
Net Weight (kgs)	3.7	4.2	4.9	4.9
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

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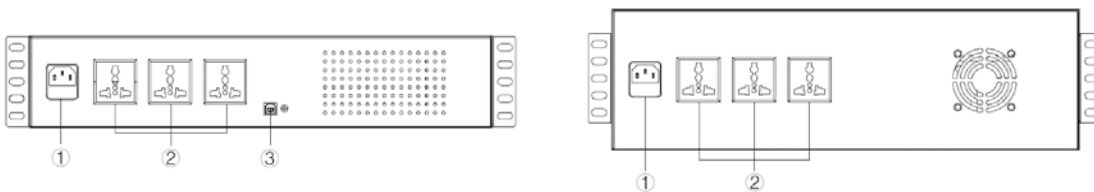
### Main Features

- Rack-mounted UPS for Standard service cabinet
- Excellent microprocessor control optimizes reliability
- Built in super smart charger, shorten charging time
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off mode charging function
- Simulated Sinewave
- Cold start function
- Offering LED and LCD panels for selection
- Optional USB/RS-232 communication port and RJ-11 phone protection

### Rear Panel

- AC input;
- 1U/2U/3U(selectable);
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Back View:



① Input ② Output ③ USB (optional)

Note: The output receptacles type may differ for different models.

### Specifications

Model	STR850	STR1000	STR1200	STR1500	STR2000	STR3000
CAPACITY	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT						
Voltage	230 VAC					
Voltage Range	140-300 VAC				170-280 VAC	
OUTPUT						
Voltage Regulation	+-10%					
Transfer Time	Typical 2-6ms, 10ms max.					
Waveform	Simulated Sine Wave					
BATTERY						
Type & Number	12V/9AH x1	12V/7AH x2	12V/7AH x2	12V/9AH x2	12V/9AH x2	12V/9AH x2
Charging Time	6 hours recover to 90% capacity					
PHYSICAL						
Dimension (DxWxH mm)	310*438*86				310*438*132	
Net Weight (kgs)	6	10	10	11	12	12.8
ENVIRONMENT						
Humidity	0-90 % RH @ 0-40°C (non-condensing)					
Noise Level	Less than 40 dB					

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### Applications:



PC



Monitor



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POS



Home Appliance



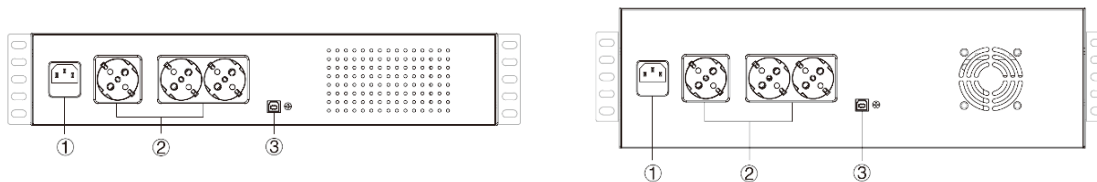
### Main Features

- Rack-mounted UPS for Standard service cabinet
- Excellent microprocessor control optimizes reliability
- Built in super smart charger, shorten charging time
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off mode charging function
- Simulated Sinewave
- Cold start function
- Offering LED and LCD panels for selection
- Optional USB/RS-232 communication port and RJ-11 phone protection

### Rear Panel

- AC input;
- 1U/2U(selectable);
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Back View:



① Input ② Output ③ USB (optional)

Note: The output receptacles type may differ for different models.

### Specifications

Model	STR850	STR1000	STR1200	STR1500	STR2000	STR3000
CAPACITY	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT						
Voltage	230 VAC					
Voltage Range	140-300 VAC				170-280 VAC	
OUTPUT						
Voltage Regulation	+-10%					
Transfer Time	Typical 2-6ms, 10ms max.					
Waveform	Simulated Sine Wave					
BATTERY						
Type & Number	12V/9AH x1	12V/7AH x2	12V/7AH x2	12V/9AH x2	12V/9AH x2	12V/9AH x2
Charging Time	6 hours recover to 90% capacity					
PHYSICAL						
Dimension (DxWxH mm)	310*438*86				310*438*132	
Net Weight (kgs)	6	10	10	11	12	12.8
ENVIRONMENT						
Humidity	0-90 % RH @ 0-40°C (non-condensing)					
Noise Level	Less than 40 dB					

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### Applications:





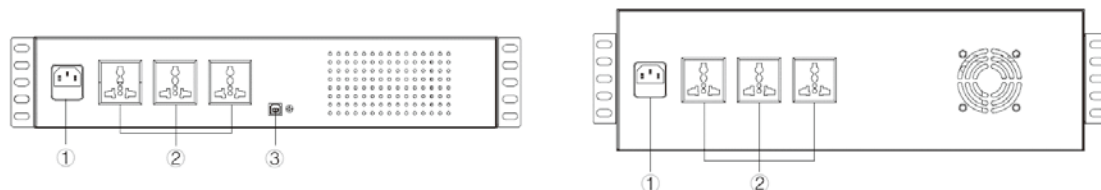
### Main Features

- Rack-mounted UPS for Standard service cabinet
- Excellent microprocessor control optimizes reliability
- Built in super smart charger, shorten charging time
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off mode charging function
- Simulated Sinewave
- Cold start function
- Offering LED and LCD panels for selection
- Optional USB/RS-232 communication port and RJ-11 phone protection

### Rear Panel

- AC input;
- 1U/2U/3U(selectable);
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

Back View:



① Input ② Output ③ USB (optional)

Note: The output receptacles type may differ for different models.

### Specifications

Model	STR850	STR1000	STR1200	STR1500	STR2000	STR3000
CAPACITY	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT						
Voltage	230 VAC					
Voltage Range	140-300 VAC				170-280 VAC	
OUTPUT						
Voltage Regulation	+-10%					
Transfer Time	Typical 2-6ms, 10ms max.					
Waveform	Simulated Sine Wave					
BATTERY						
Type & Number	12V/9AH x1	12V/7AH x2	12V/7AH x2	12V/9AH x2	12V/9AH x2	12V/9AH x2
Charging Time	6 hours recover to 90% capacity					
PHYSICAL						
Dimension (DxWxH mm)	310*438*86				310*438*132	
Net Weight (kgs)	6	10	10	11	12	12.8
ENVIRONMENT						
Humidity	0-90 % RH @ 0-40°C (non-condensing)					
Noise Level	Less than 40 dB					

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Applications:



PC



Monitor



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POS



Home Appliance





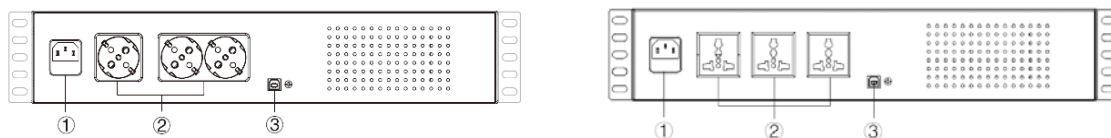
### Main Features

- Rack-mounted UPS for Standard service cabinet
- Excellent microprocessor control optimizes reliability
- Built in super smart charger, shorten charging time
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off mode charging function
- Simulated Sinewave
- Cold start function
- Offering LED and LCD panels for selection
- Optional USB/RS-232 communication port and RJ-11 phone protection

### Rear Panel

- AC input;
- 1U/2U/3U(selectable);
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Back View:



① Input ② Output ③ USB (optional)

Note: The output receptacles type may differ for different models.

### Specifications

Model	STR850	STR1000	STR1200	STR1500	STR2000	STR3000
CAPACITY	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT						
Voltage	230 VAC					
Voltage Range	140-300 VAC				170-280 VAC	
OUTPUT						
Voltage Regulation	+-10%					
Transfer Time	Typical 2-6ms, 10ms max.					
Waveform	Simulated Sine Wave					
BATTERY						
Type & Number	12V/9AH x1	12V/7AH x2	12V/7AH x2	12V/9AH x2	12V/9AH x2	12V/9AH x2
Charging Time	6 hours recover to 90% capacity					
PHYSICAL						
Dimension (DxWxH mm)	310*438*86				310*438*132	
Net Weight (kgs)	6	10	10	11	12	12.8
ENVIRONMENT						
Humidity	0-90 % RH @ 0-40°C (non-condensing)					
Noise Level	Less than 40 dB					

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### Applications:



PC



Monitor



ADSL



POS



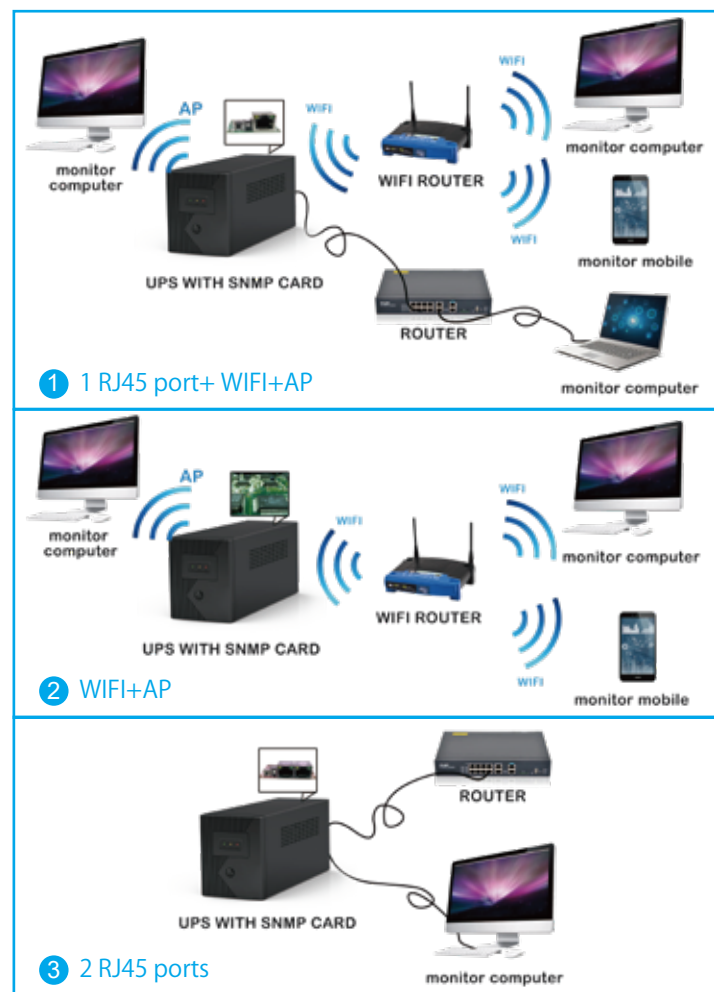
Home Appliance



### Main Features

- LCD display or LED display for option;
- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;

### Function diagram



### Rear Panel



### Specifications

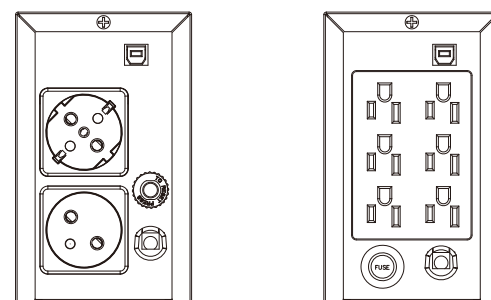
MODEL	STE450	STE650	STE850	STE1000	STE1200	STE1500	STE2000	STE3000
Capacity	450VA/ 240W	650VA/ 360W	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
Voltage Range	81-145VAC or 140-300VAC							
Frequency Range	60/50 Hz (Auto sensing)							
OUTPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
AC Voltage Regulation (Bat Mode)	± 10%							
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz							
Transfer time	Typical 2-6ms							
Waveform (Bat Mode)	Simulated Sine Wave							
BATTERY								
Battery Type&Number	12V*4.5Ah*1	12V*7Ah*1	12V*9Ah*1	12V*7Ah*2	12V*7Ah*2	12V*9Ah*2	12V*9Ah*2 12V*7Ah*4	12V*9Ah*2 12V*9Ah*4
Charging ability	4-6 hours recover to 90% capacity							
PROTECTION								
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection							
INDICATIONS								
LCD Display	AC Mode		Green lighting					
	Battery Mode		Yellow flashing					
	Fault		Red lighting					
Battery mode	Sounding every 10 seconds							
Low battery	Sounding every second							
Overload	Sounding every 0.5 seconds							
Battery Replacement Alarm	Sounding every 2 seconds							
Fault	Continuously sounding							
Dimension, D*W*H(mm)	260*90*150	320*90*150		370*135*165				
							466*138*166	
Net Weight (kgs)	3.7	5.4	5.8	9	9.5	10.5	11.3	12.3
							17.3	19
QTY/20FT	1920PCS with Pallet	1600PCS with Pallet			960PCS with Pallet			
QTY/40GP	4032PCS with Pallet	3360PCS with Pallet			2016PCS with Pallet			
ENVIRONMENT								
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)							
Noise Level	Less than 40dB							
COMMUNICATIONS								
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC							

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



### Main Features

- LCD display or LED display for option;
- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);
- Optional RS232/USB communication port and RJ11/RJ45 protection.



### Rear Panel

- AC input;
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Applications:



PC



Monitor



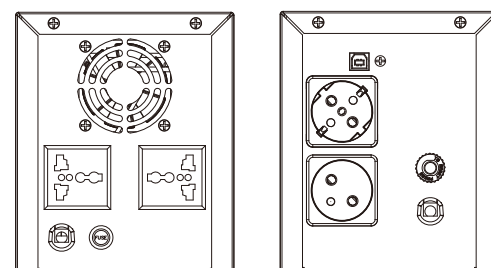
ADSL



POS



Home Appliance



### Specifications

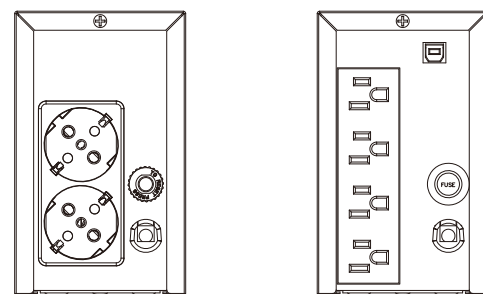
MODEL	STC450	STC650	STC850	STC1000	STC1200	STC1500	STC2000	STC3000
Capacity	450VA/ 240W	650VA/ 360W	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
Voltage Range	81-145VAC or 140-300VAC							
Frequency Range	60/50 Hz (Auto sensing)							
OUTPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
AC Voltage Regulation (Bat Mode)	± 10%							
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz							
Transfer time	Typical 2-6ms							
Waveform (Bat Mode)	Simulated Sine Wave							
BATTERY								
Battery Type&Number	12V*4.5Ah*1	12V*7Ah*1	12V*9Ah*1	12V*7Ah*2	12V*7Ah*2	12V*9Ah*2	12V*9Ah*2 12V*7Ah*4	12V*9Ah*2 12V*9Ah*4
Charging ability	4-6 hours recover to 90% capacity							
PROTECTION								
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection							
INDICATIONS								
LCD Display	AC Mode		Green lighting					
	Battery Mode		Yellow flashing					
	Fault		Red lighting					
Battery mode	Sounding every 10 seconds							
Low battery	Sounding every second							
Overload	Sounding every 0.5 seconds							
Battery Replacement Alarm	Sounding every 2 seconds							
Fault	Continuously sounding							
Dimension, D*W*H(mm)	260*90*150	320*90*150		370*135*165				
							466*138*166	
Net Weight (kgs)	3.7	5.4	5.8	9	9.5	10.5	11.3	12.3
							17.3	19
QTY/20FT	1920PCS with Pallet	1600PCS with Pallet			960PCS with Pallet			
QTY/40GP	4032PCS with Pallet	3360PCS with Pallet			2016PCS with Pallet			
ENVIRONMENT								
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)							
Noise Level	Less than 40dB							
COMMUNICATIONS								
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC							

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



### Main Features

- LCD display or LED display for option;
- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);
- Optional RS232/USB communication port and RJ11/RJ45 protection.



### Rear Panel

- AC input;
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Applications:



PC



Monitor



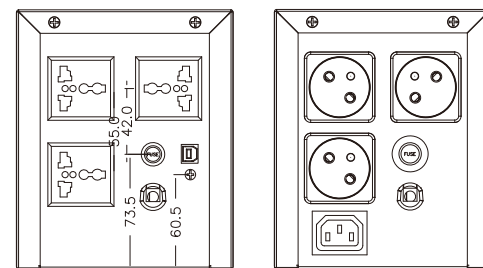
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POS



Home Appliance



### Specifications

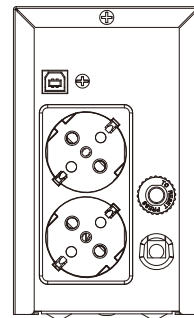
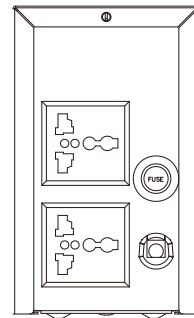
MODEL	STE450	STE650	STE850	STE1000	STE1200	STE1500	STE2000	STE3000
Capacity	450VA/ 240W	650VA/ 360W	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
Voltage Range	81-145VAC or 140-300VAC							
Frequency Range	60/50 Hz (Auto sensing)							
OUTPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
AC Voltage Regulation (Bat Mode)	±10%							
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz							
Transfer time	Typical 2-6ms							
Waveform (Bat Mode)	Simulated Sine Wave							
BATTERY								
Battery Type&Number	12V*4.5Ah*1	12V*7Ah*1	12V*9Ah*1	12V*7Ah*2	12V*7Ah*2	12V*9Ah*2	12V*9Ah*2 12V*7Ah*4	12V*9Ah*2 12V*9Ah*4
Charging ability	4-6 hours recover to 90% capacity							
PROTECTION								
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection							
INDICATIONS								
LCD Display	AC Mode		Green lighting					
	Battery Mode		Yellow flashing					
	Fault		Red lighting					
Battery mode	Sounding every 10 seconds							
Low battery	Sounding every second							
Overload	Sounding every 0.5 seconds							
Battery Replacement Alarm	Sounding every 2 seconds							
Fault	Continuously sounding							
Dimension, D*W*H(mm)	260*90*150	320*90*150		370*135*165				
							466*138*166	
Net Weight (kgs)	3.7	5.4	5.8	9	9.5	10.5	11.3	12.3
							17.3	19
QTY/20FT	1920PCS with Pallet	1600PCS with Pallet		960PCS with Pallet				
QTY/40GP	4032PCS with Pallet	3360PCS with Pallet		2016PCS with Pallet				
ENVIRONMENT								
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)							
Noise Level	Less than 40dB							
COMMUNICATIONS								
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC							

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



### Main Features

- LCD display or LED display for option;
- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);
- Optional RS232/USB communication port and RJ11/RJ45 protection.



### Rear Panel

- AC input;
- Output Socket(selectable);
- TEL/Modem/Fax surge protection(RJ11/RJ45) (optional);
- USB/RS232 communication (optional);
- AC Fuse/Breaker (optional).

### Applications:



PC



Monitor



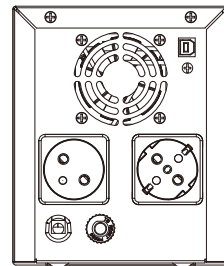
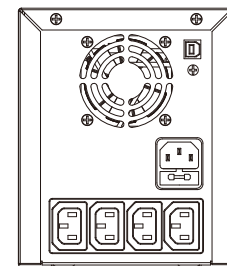
ADSL



POS



Home Appliance



### Specifications

MODEL	STC450	STC650	STC850	STC1000	STC1200	STC1500	STC2000	STC3000
Capacity	450VA/ 240W	650VA/ 360W	850VA/ 480W	1000VA/ 600W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
Voltage Range	81-145VAC or 140-300VAC							
Frequency Range	60/50 Hz (Auto sensing)							
OUTPUT								
Voltage	110/120 VAC or 220/230/240 VAC							
AC Voltage Regulation (Bat Mode)	± 10%							
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz							
Transfer time	Typical 2-6ms							
Waveform (Bat Mode)	Simulated Sine Wave							
BATTERY								
Battery Type&Number	12V*4.5Ah*1	12V*7Ah*1	12V*9Ah*1	12V*7Ah*2	12V*7Ah*2	12V*9Ah*2	12V*9Ah*2 12V*7Ah*4	12V*9Ah*2 12V*9Ah*4
Charging ability	4-6 hours recover to 90% capacity							
PROTECTION								
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection							
INDICATIONS								
LCD Display	AC Mode		Green lighting					
	Battery Mode		Yellow flashing					
	Fault		Red lighting					
Battery mode	Sounding every 10 seconds							
Low battery	Sounding every second							
Overload	Sounding every 0.5 seconds							
Battery Replacement Alarm	Sounding every 2 seconds							
Fault	Continuously sounding							
Dimension, D*W*H(mm)	260*90*150	320*90*150		370*135*165				
							466*138*166	
Net Weight (kgs)	3.7	5.4	5.8	9	9.5	10.5	11.3	12.3
							17.3	19
QTY/20FT	1920PCS with Pallet	1600PCS with Pallet		960PCS with Pallet				
QTY/40GP	4032PCS with Pallet	3360PCS with Pallet		2016PCS with Pallet				
ENVIRONMENT								
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)							
Noise Level	Less than 40dB							
COMMUNICATIONS								
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC							

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.





### Main Features

- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

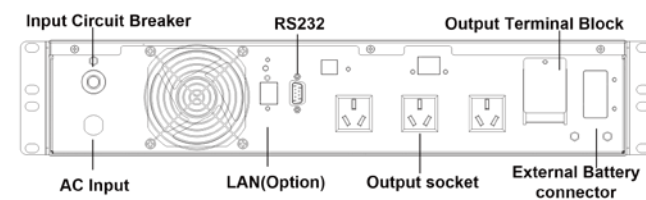
- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

### Applications

- 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, Telephones and Fax.



PX1KR-1U RACK UPS Rear Panel

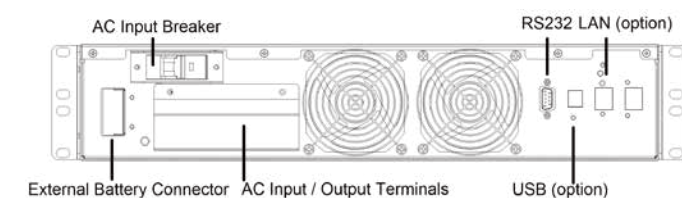


PX1/2KR(L) RACK UPS Rear Panel

### Specifications

Model item		PX1KR	PX1KRL	PX2KR	PX2KRL	PX3KR	PX3KRL	PX6KRL	PX10KRL
Rated power		1000VA/900W		2000VA/1800W		3000VA/2700W		6kVA/5.4kW	10kVA/9kW
AC Input	Input system	Single phase (L/N+PE)							
	Nominal voltage	HV: 208/220/230/240Vac							
	Frequency	50/60Hz							
	Voltage range	HV: 90~300VAC±5VAC							
	Frequency range	(40~70)±0.5Hz							
	Input power factor	>0.99							
	Bypass Voltage Range	HV: 115~285VAC×(1±3%)							
Battery Input	Nominal Voltage	24V	36V	48V	72V	72V	96V	192V	192V/240V
	Battery Capacity & Quantity	12V/9AH x 2pcs	External	12V/9AH x 4pcs	External	12V/9AH x 6pcs	External	External	External
	Backup Time	Half loaded≥8minutes, Full loaded ≥3minutes(standard)						Half loaded≥6minutes, Full loaded ≥3minutes(standard)	
	Battery charger time	Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time)							
AC Output	Output wiring system	Single phase (L/N+PE)							
	Inverter Mode	HV:208/220/230/240Vac±2%							
	Output voltage	HV:208/220/230/240Vac±2%							
	Waveform	Sine Wave							
	Harmonic Distortion	THD<2% (linear load) THD<7% (nonlinear load)							
	Output frequency	50/60±4Hz (Sync mode) 50/60Hz±1% (Fix Freq. mode)							
	Overload capability	105 ~ 125%≥ 60s,126 ~ 150%≥30s      The recover point is 70%							
	Transfer time	Battery <-> Line    Mode :0ms							
Efficiency	Line Mode	HV:86%		HV:89%		HV:89%		HV:92%	HV:93%
	Battery Mode	HV:85%		HV:86%		HV:87%			
Communications		RS232 RS485(optional), Dry contact(optional), Network Card(Option)							
Alarm Function		AC/DC input under abnormal, overload condition and Inverter problems							
Protection Function		AC input or output above or below the range of voltage, overload, over temperature and short circuit protection							
Noise		<50dB						<55dB	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



PX6/10KR(L) RACK UPS Rear Panel

## PXR SERIES LV RACK-MOUNT ONLINE UPS 1KVA-10KVA LCD DISPLAY



### Main Features

- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

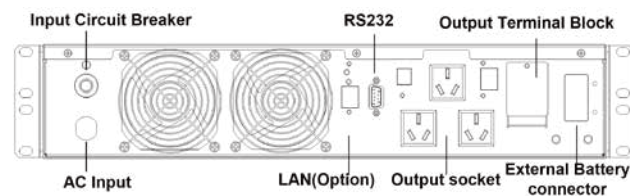
- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

### Applications

- 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, Telephones and Fax.



PX1KR(L)-1U RACK UPS Rear Panel



PX3KR(L) RACK UPS Rear Panel

### Specifications

Model item		PX1KR	PX1KRL	PX2KR	PX2KRL	PX3KR	PX3KRL	PX6KRL	PX10KRL
Rated power		1000VA/900W		2000VA/1800W		3000VA/2700W		6kVA/5.4kW	10kVA/9kW
AC Input	Input system	Single phase (L/N+PE)							
	Nominal voltage	LV:100/110/120/127Vac							
	Frequency	50/60Hz							
	Voltage range	LV: 60-145Vac±3VAC							
	Frequency range	(40~70)±0.5Hz							
	Input power factor	>0.99							
	Bypass Voltage Range	LV: 80~140VAC×(1±3%)							
Battery Input	Nominal Voltage	24V	36V	48V	72V	72V	96V	192V	192V/240V
	Battery Capacity & Quantity	12V/9AH x 2pcs	External	12V/9AH x 4pcs	External	12V/9AH x 6pcs	External	External	External
	Backup Time	Half loaded≥8minutes, Full loaded ≥3minutes(standard)						Half loaded≥6minutes, Full loaded ≥3minutes(standard)	
	Battery charger time	Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time)							
AC Output	Output wiring system	Single phase (L/N+PE)							
	Inverter Mode	LV:100/110/120/127Vac±2%							
	Output voltage								
	Waveform	Sine Wave							
	Harmonic Distortion	THD<2% (linear load) THD<7% (nonlinear load)							
	Output frequency	50/60±4Hz (Sync mode) 50/60Hz±1% (Fix Freq. mode)							
	Overload capability	105 ~ 125%≥ 60s,126 ~ 150%≥30s      The recover point is 70%							
Efficiency	Transfer time	Battery <-> Line    Mode :0ms							
	Line Mode	LV:86%		LV:86%		LV:87%		LV:88%	LV:89%
	Battery Mode	LV:85%		LV:86%		LV:87%			
Communications		RS232 RS485(optional), Dry contact(optional), Network Card(Option)							
Alarm Function		AC/DC input under abnormal, overload condition and Inverter problems							
Protection Function		AC input or output above or below the range of voltage, overload, over temperature and short circuit protection							
Noise		<50dB						<55dB	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

## PXR SERIES HV RACK-MOUNT ONLINE UPS 10KVA-20KVA LCD DISPLAY

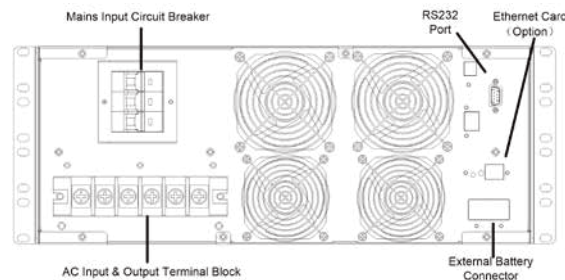


### Main Features

- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.



PX15/20KRL-3P1 Rack UPS Rear Panel

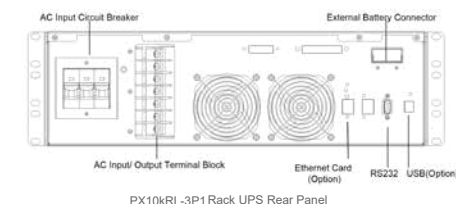
### Applications

- 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, Telephones and Fax.

### Specifications

Model		PX10KRL-3P1	PX15KRL-3P1	PX20KRL-3P1
Capacity	VA/W	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Topology		Double Conversion Online UPS		
Phase		Single Phase Input Single Phase Output <b>OR</b> 3 Phases Input Single Phase Output		
AC Mains Input	Wiring	Single Phase L/N+PE <b>OR</b> 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		
	Rated 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)		
Efficiency	AC/AC Mode	>94%		
	DC/AC Mode	>92%		
Battery & Charge	Rated Battery Voltage	192/240VDC External Battery		
	Battery Capacity	External Battery Depends		
	Backup Time			
	Charging Current	Long Backup Time Model :4A / 8A (Optional)		
Physical	Chassis Style	Rack-Mounted		
	Tower Dimension	PX10kRL-3P1: 438mm(W) x 132mm(3U)(H) x 500mm(D) PX15/20kRL-3P1: 438(W)x176(4U)(H)x530(D) MM		
	Weight (kg)	18.5	25.6	26.1
Operating Environment Endurance	Temperature range	-10~50°C		
	Relative Humidity	0-98% (Non-condensing)		
	Acoustics Noise	<60dB @ 1 meters		

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



PX10KRL-3P1 Rack UPS Rear Panel

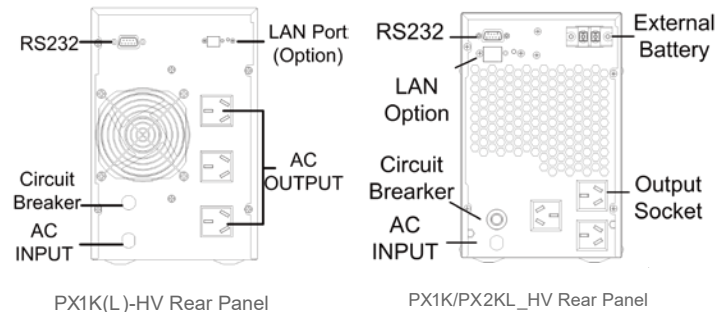


### Main Features

- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.



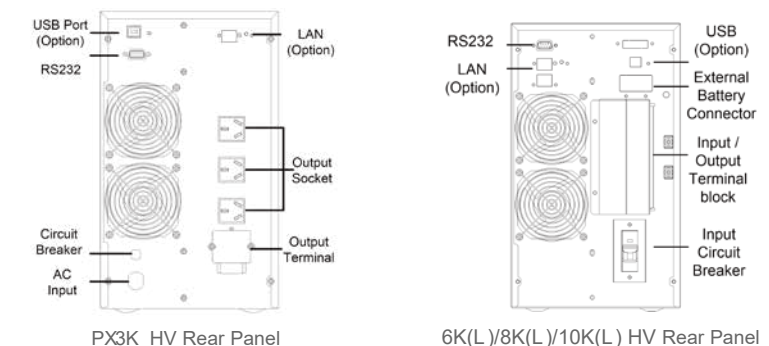
### Applications

- 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, Telephones and Fax.

### Specifications

Model item		PX1K	PX1KL	PX2K	PX2KL	PX3K	PX3KL	PX6K	PX6KL	PX10K	PX10KL
Rated power		1000VA/900W		2000VA/1800W		3000VA/2700W		6kVA/5.4kW		10kVA/9kW	
AC Input	Input system	Single phase (L/N+PE)									
	Nominal voltage	HV: 208/220/230/240Vac									
	Frequency	50/60Hz									
	Voltage range	HV: 90~300VAC±5VAC									
	Frequency range	(40~70)±0.5Hz									
	Input power factor	>0.99									
	Bypass Voltage Range	HV: 115~285VAC×(1±3%)									
Battery Input	Nominal Voltage	24V	36V	48V	72V	72V	96V	192V	192V	192V/240V	
	Battery Capacity & Quantity	12V/9AH x 2pcs	External	12V/9AH x 4pcs	External	12V/9AH x 6pcs	External	12V/9AH x 16pcs	External	12V/9AH x16/20pcs	External
	Backup Time	Half loaded≥8minutes, Full loaded ≥3minutes(standard)						Half loaded≥6minutes, Full loaded ≥3minutes(standard)			
	Battery charger time	Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time)									
AC Output	Output wiring system	Single phase (L/N+PE)									
	Inverter Mode	HV:208/220/230/240Vac±2%									
	Output voltage	HV:208/220/230/240Vac±2%									
	Waveform	Sine Wave									
	Harmonic Distortion	THD<2% (linear load) THD<7% (nonlinear load)									
	Output frequency	50/60±4Hz (Sync mode) 50/60Hz±1% (Fix Freq. mode)									
	Overload capability	105 ~ 125%≥ 60s, 126 ~ 150%≥30s    The recover point is 70%									
Efficiency	Line Mode	HV:86%		HV:88%		HV:89%		HV:92%		HV:93%	
	Battery Mode	HV:85%		HV:86%		HV:87%					
Communications		RS232 RS485(optional), Dry contact(optional), Network Card(Option)									
Alarm Function		AC/DC input under abnormal, overload condition and Inverter problems									
Protection Function		AC input or output above or below the range of voltage, overload, over temperature and short circuit protection									
Noise		<50dB						<55dB			

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.







### Main Features

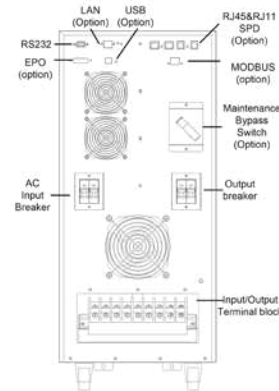
- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

### Applications

- 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, Telephones and Fax.

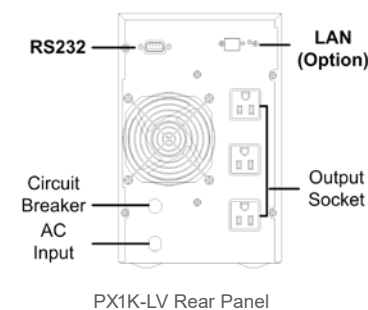


6K(L)/8K(L)/10K(L) LV (Dual Phase) Rear Panel

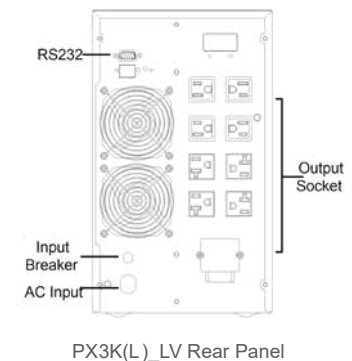
### Specifications

Model item		PX1K	PX1KL	PX2K	PX2KL	PX3K	PX3KL	PX6K	PX6KL	PX10K	PX10KL
Rated power		1000VA/900W		2000VA/1800W		3000VA/2700W		6kVA/5.4kW		10kVA/9kW	
AC Input	Input system	Single phase (L/N+PE)									
	Nominal voltage	LV:100/110/120/127Vac									
	Frequency	50/60Hz									
	Voltage range	LV: 60-145Vac±3VAC									
	Frequency range	( 40~70)±0.5Hz									
	Input power factor	>0.99									
	Bypass Voltage Range	LV: 80~140VAC×(1±3%)									
Battery Input	Nominal Voltage	24V	36V	48V	72V	72V	96V	192V	192V	192V/240V	
	Battery Capacity & Quantity	12V/9AH x 2pcs	External	12V/9AH x 4pcs	External	12V/9AH x 6pcs	External	12V/9AH x 16pcs	External	12V/9AH x16/20pcs	External
	Backup Time	Half loaded≥8minutes, Full loaded ≥3minutes(standard)						Half loaded≥6minutes, Full loaded ≥3minutes(standard)			
	Battery charger time	Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time)									
AC Output	Output wiring system	Single phase (L/N+PE)									
	Inverter Mode	LV:100/110/120/127Vac±2%									
	Output voltage	LV:100/110/120/127Vac±2%									
	Waveform	Sine Wave									
	Harmonic Distortion	THD<2% (linear load) THD<7% (nonlinear load)									
	Output frequency	50/60±4Hz (Sync mode) 50/60Hz±1% (Fix Freq. mode)									
	Overload capability	105 ~ 125%≥ 60s, 126 ~ 150%≥30s      The recover point is 70%									
Efficiency	Line Mode	LV:86%		LV:86%		LV:87%		LV:88%		LV:89%	
	Battery Mode	LV:85%		LV:86%		LV:87%					
Communications		RS232 RS485(optional), Dry contact(optional), Network Card(Option)									
Alarm Function		AC/DC input under abnormal, overload condition and Inverter problems									
Protection Function		AC input or output above or below the range of voltage, overload, over temperature and short circuit protection									
Noise		<50dB						<55dB			

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



PX1K-LV Rear Panel



PX3K(L)\_LV Rear Panel





### Main Features

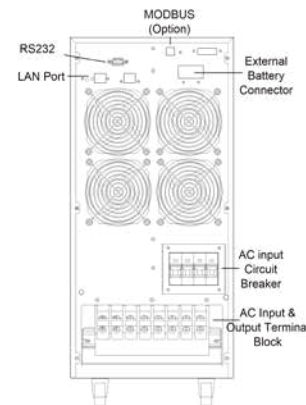
- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

### Applications

- 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, Telephones and Fax.



15K(L)/20K(L)Rear Panel

### Specifications

Item	Model	PX10K-3P1	PX10KL-3P1	PX15K-3P1	PX15KL-3P1	PX20K-3P1	PX20KL-3P1
Rated power		10KVA/9KW		15KVA/13.5KW		20KVA/18KW	
AC Input	Input system	3phases (L1, L2, L3, N, PE) 或 1phases (L , N, PE)					
	Nominal voltage	208/220/230/240Vac					
	Frequency	50Hz/60HZ					
	Voltage range	L-N : 90~300VAC±5VAC L-L : 156~520VAC ±5VAC					
	Frequency range	(40~70)±0.5Hz					
	Input power factor	>0.99					
	Bypass Voltage Range	115~285VAC×(1±3%)					
Battery Input	Nominal Voltage	192V/240V (Selectable)					
	Battery Capacity & Quantity	12V/7AH x 16pcs	External	12V/7AH x 32pcs	External	12V/7AH x 32pcs	External
	Backup Time	Standard Model with internal battery : half load ≥6min, full load ≥ 1.5min Long backup time Model: determined by external battery					
	Battery charger Time	Standard Model with internal battery : 5 hours to 90% Long backup time Model: determined by external battery					
AC Output	Output wiring system	1 phase 3 wire (L ,N, G)					
	Inverter Mode Output voltage	220/230/240Vac±2%					
	Waveform	Sine wave					
	Output frequency	50/60±4Hz (Sync mode) 50/60Hz±1% (Fix Freq. mode)					
	Harmonic Distortion	THD <2% (Linear Load) THD <7% (non-linear Load)					
	Overload capability	Line mode / Battery Mode with 240VDC 105~125% 10mins, 126~150% 1min , >150% 100ms Battery Mode with 192VDC105~125% 1s, >126% 100ms					
	Transfer time	Line mode <-> Battery Mode 0ms					
Efficiency	Line Mode	93%		93%		94%	
	Battery Mode	92%		92%		93%	
Communications Port		RS232 RS485(optional), Dry contact(optional), Network Card(Optional)					
Noise		<50dB				<55dB	
Protection Function		AC input or output above or below the range of voltage, overload, over temperature and short circuit protection					

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### Main Features

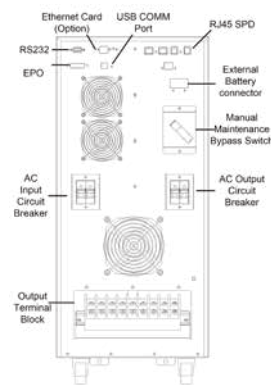
- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

### Applications

- 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, Telephones and Fax.

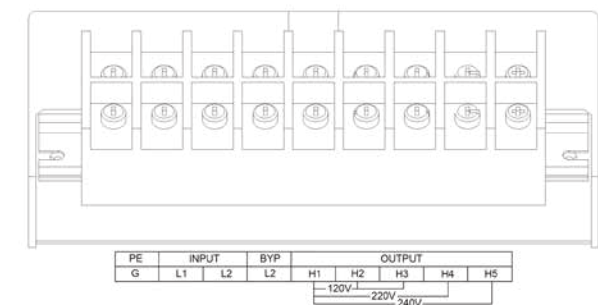


PX6,10KL-DP Rear Panel

### Specifications

Model		6K-DP	6KL-DP	10K-DP	10KL-DP
Capacity	VA/W	6000VA/5400W		10000VA/9000W	
Topology		Double Conversion Online UPS			
AC Mains Input	Wiring	1 phase 3wires ( L / N+PE)			
	Rated Voltage	208/220/230/240Vac			
	Rated Frequency	50Hz/60HZ			
	Voltage Range	90~300VAC±5VAC			
	Frequency Range	(40~70)±0.5Hz			
	Input Power Factor	>0.99			
	Bypass voltage Range	115~285VAC			
Battery & Charger	Rated Battery Voltage <sup>①</sup>	144VDC Internal		192VDC Internal or External	
	Battery Capacity	12V/7AHx12pcs	External Battery Depends	12V/7AHx16pcs	External Battery Depends
	Backup Time	>6mins @ Half Load		>6mins @ Half Load	
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A			
AC Output	Wiring	1 phase 3wires ( L / N+PE) or Dual Phase 4wire L1/N1+L2/N2 +PE			
	Output Voltage	High voltage 08/220/230/240Vac Low Voltage 110/120Vac			
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)			
	Voltage Regulation	+/-3%			
	Waveform	Pure Sine Wave			
	Distortion (THDV%)	<2%(Linear Load)			
		<7%(None-Linear Load)			
	Output Power Factor	0.9			
	Over load capability	10min@105%~125% 60s@125%~150% 0.5S@>150%			
Transfer Time	Line Mode - Battery Mode 0ms				
Operating Environment Endurance	Temperature range	-10~50°C			
	Relative Humidity	0-98% (Non-condensing)			
	Acoustics Noise	<55dB @ 1 meters			

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Custom-made specifications are acceptable.



PX6,10KL-DP Output Terminal Block



Main Features

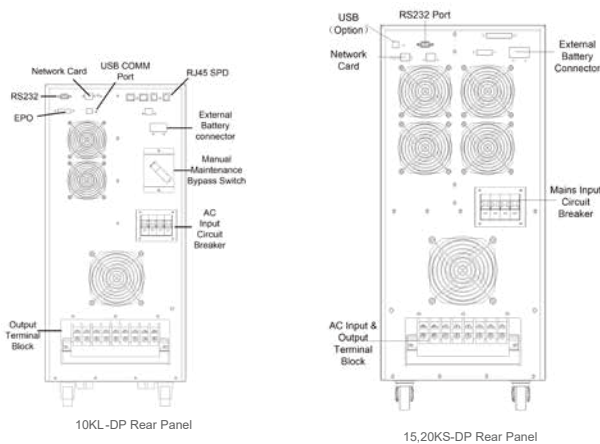
- Double conversion online UPS;
- High Performance DSP based full digital controlled, Pure Sinewave output;
- Having frequency converter operating mode;
- Wide input voltage range, work well with different power quality;
- Compatible with most generators set;
- Embedded input power factor corrector, avoid reactive power loss, saving power for user;
- Having ECO mode. Enable best balance between energy saving and power protection;
- Good loading adaptability, work well with laser printer, Ultrasonic cleaner;
- Make with strong glass fiber base double side PCB (FR4), avoid dry solder, strong anti-vibration/anti-humidity/anti-dust capability;
- Small profile, save installation space for user;
- Accept deep customer-oriented, perfect match customer application requirement;
- Attractive performance-cost ratio.

Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

Applications

- 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, Telephones and Fax.



Specifications

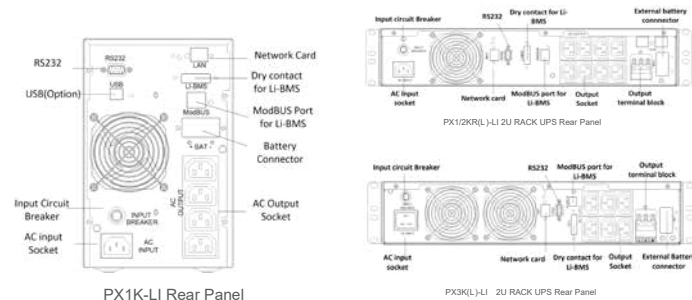
Model		10K-DP	10KL-DP	15KL-DP	20KL-DP
Capacity	VA/W	10kVA/9kW		15kVA/13.5kW	20kVA/18kW
Topology		Double Conversion Online UPS with Dual Phase Galvanic Isolation Output Transformer			
AC Mains Input	Wiring	1 phase 3wires ( L / N+PE) or Dual Phase 3wire L1 +L2 +PE Or 3phase L1, L2, L3, N+PE			
	Rated Voltage	208/220/230/240Vac			
	Rated Frequency	50Hz/60HZ			
	Voltage Range	90~300VAC±5VAC			
	Frequency Range	(40~70)±0.5Hz			
	Input Power Factor	>0.99			
	Bypass voltage Range	115~285VAC			
Battery & Charger	Rated Battery Voltage <sup>①</sup>	192VDC Internal	192VDC/240VDC Selectable External		
	Battery Capacity	12V/7AH*16PCS	External Battery Depends		
	Backup Time	6min @ half load			
	Charging Current	standard Model with Internal Battery:1A Long Backup Time Model :4A			
AC Output	Wiring	1 phase 3wires ( L / N+PE) or Dual Phase 4wire L1/N1+L2/N2 +PE			
	Output Voltage	High voltage 208/220/230/240Vac Low Voltage 110/120Vac			
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)			
	Voltage Regulation	+/-3%			
	Waveform	Pure Sine Wave			
	Distortion (THDV%)	<2%(Linear Load)			
		<7%(None-Linear Load)			
	Output Power Factor	0.9			
	Over load capability	10min@105%~125% 60s@125%~150% 0.5S@>150%			
	Transfer Time	Line Mode - Battery Mode 0ms			
Operating Environment Endurance	Temperature range	-10~50°C			
	Relative Humidity	0-98% (Non-condensing)			
	Acoustics Noise	<55dB @ 1 meters			

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



### Main Features

- Zero Transfer time
- DSP Digital Control Based
- Li-ion Battery Powered
- Dry Contact control Interface for BMS
- ModBus interface with BMS
- Li-ion Battery Charger
- ultra Wide Input Mains range
- Best Loading Capability
- Genset Compatible
- High Input power factor
- Reliable design
- Open to customization

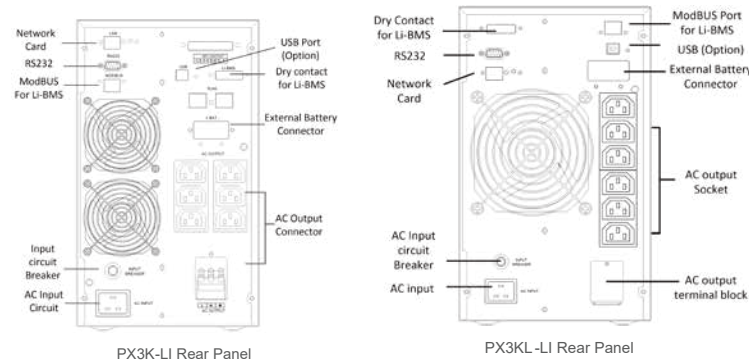


PX1K-LI Rear Panel

PX3KL-LI 2U RACK UPS Rear Panel

### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.



PX3K-LI Rear Panel

PX3KL-LI Rear Panel

### Applications

- 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, Telephones and Fax.

### Specifications

Model		PX1K-LI	PX1KL-LI	PX2K-LI	PX2KL-LI	PX3K-LI	PX3KL-LI
Capacity	VA/W	1kVA/800W		2kVA/1.6kW		3kVA/2.4kW	
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	Sine Wave					
	Distortion (THDV%)	<2%(Linear Load)					
		<8%(None-Linear Load)					
	Over load 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	86%		87%		88%	
Battery & Charger	Rated Battery Voltage	48VDC					
	Battery Capacity	1000WH	External Battery Depends	1000WH	External Battery Depends	1000WH	External Battery Depends
	Backup Time	>60mins @ Full Load		>30mins @ Full Load		>20mins @ Full Load	
	Charging Current	4A					
	Charging Voltage	56.5V(default for 16cell of LiFePO4 ) / Customerized according to battery request					
	Charger Behavior & Protection	CC. CV. Floating. Turn-Off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface					
Physical	Chassis Style	RACK / Tower (separated)					
	Rack Dimension	1K: 438x44(2U)X420mm 1KL: 438x44(2U)X360mm		2K: 438x44(2U)X420mm 2KL: 438x44(2U)X360mm		3K: 438x44(2U)X500mm 3KL: 438x44(2U)X360mm	
	Tower Dimension	PX1KL/PX2KL: 145×220×390mm PX1K/2K/3K/3KL: 190×318×365mm					
Operating Environment Endurance	Temperature range	-10~50℃					
	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					

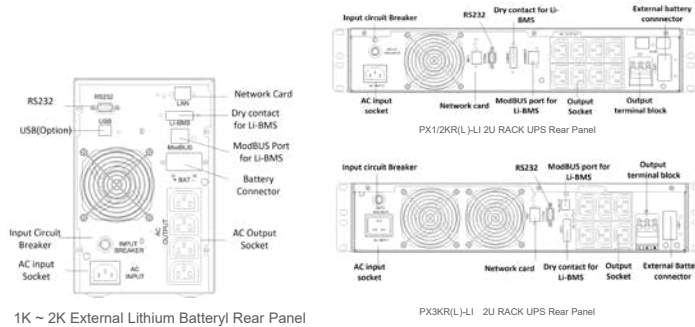
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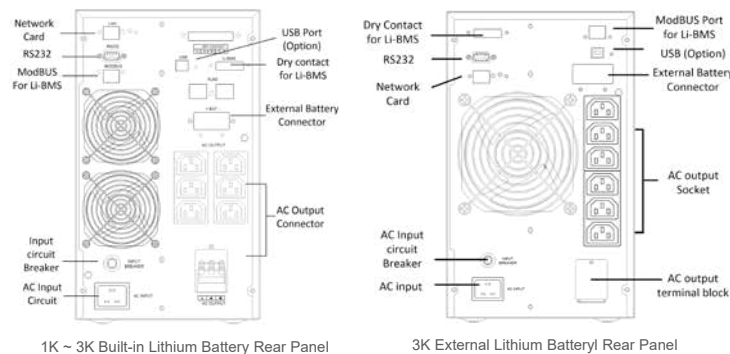
### Main Features

- Zero Transfer time
- DSP Digital Control Based
- Li-ion Battery Powered
- Dry Contact control Interface for BMS
- ModBus interface with BMS
- Li-ion Battery Charger
- ultra Wide Input Mains range
- Best Loading Capability
- Genset Compatible
- High Input power factor
- Reliable design
- Open to customization



### Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.



### Applications

- 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, Telephones and Fax.

### Specifications

Model		PX1KH-LI	PX1KHL-LI	PX2KH-LI	PX2KHL-LI	PX3KH-LI	PX3KHL-LI
Capacity	VA/W	1kVA/800W		2kVA/1.6kW		3kVA/2.4kW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	L/N+PE					
	Voltage Range	65~145VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	110/110/115/120/127VAC					
	Voltage Regulation	±1%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Sine Wave					
	Distortion (THDV%)	<2%(Linear Load)					
		<7%(None-Linear Load)					
	Over load 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	86%		87%		88%	
Battery & Charger	Rated Battery Voltage	48VDC					
	Battery Capacity	1000WH	External Battery Depends	1000WH	External Battery Depends	1000WH	External Battery Depends
	Backup Time	>120mins @ Full Load		>60mins @ Full Load		>30mins @ Full Load	
	Charging Current	Standard machine (battery built-in) :4A Long-acting machine (battery external) :4A (standard) / 10A (optional)					
Physical	Chassis Style	RACK / Tower (separated)					
	Rack Dimension	1K: 438x44(2U)X400MM 1KL: 438x44(2U)X360MM		2K: 438x88(2U)X400MM 2KL:438x88(2U)X360MM		3K: 438x88(2U)X500MM 3KL:438x88(2U)X360MM	
	Tower Dimension	PX1KL/2KL: 145×220×390mm PX1K/2K/3K/3KL: 190×318×365mm					
Operating Environment Endurance	Temperature range	-10~50°C					
	Relative Humidity	-3P1 0-98% (Non-condensing)					
	Acoustics Noise	-3P1 <55dB @ 1 meters					

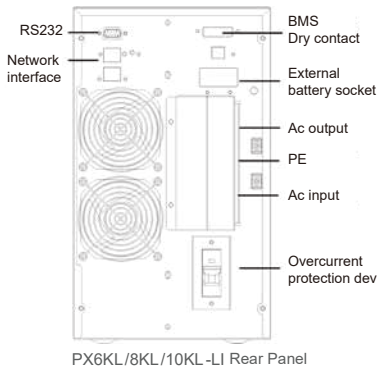
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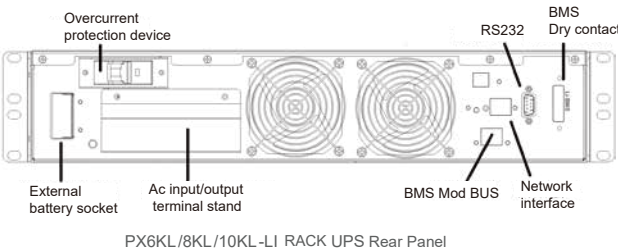
Main Features

- Zero Transfer time
- DSP Digital Control Based
- Li-ion Battery Powered
- Dry Contact control Interface for BMs
- ModBus interface with BMS
- li-ion Battery Charger
- ultra Wide Input Mains range
- Best Loading Capability
- Genset Compatible
- High Input power factor
- Reliable design
- Open to customization



Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.



Applications

- 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, Telephones and Fax.

Specifications

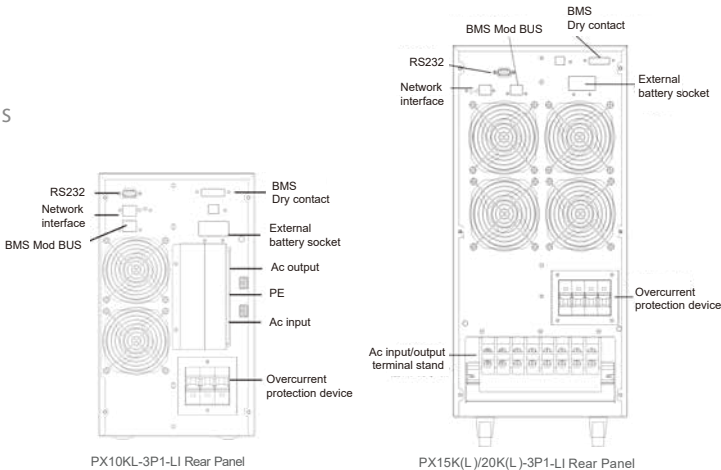
Model		PX6KL-LI	PX8KL-LI	PX10KL-LI
Capacity	VA/W	6kVA/5.4kW	8kVA/7.2kW	10kVA/9kW
Topology		Double Conversion Online UPS		
Phase		Single-phase input/single-phase output		
Mains Input	Wiring	L/N+PE		
	Rated Voltage	208/220/230/240VAC		
	Voltage Range	HV: Zero fire phase voltage: 90~300VAC LV: Zero fire phase voltage: 55~145VAC		
	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	Sine Wave		
	Distortion (THDV%)	<2%(Linear Load) <6%(None-Linear Load)		
Efficiency	Utility Model	>92%	>92%	>93%
	Battery Model	>90%		
Battery & Charger	Rated Battery Voltage	192VDC		
	Battery Capacity	External battery determination		
	Backup Time			
	Charging Current	4A		
Physical	Chassis Style	RACK / Tower (separated)		
	Rack Dimension	190x340x540mm		
	Tower Dimension	438x88(2U)x500mm		
Operating Environment	Temperature range	-10~50°C		
	Relative Humidity	0-98% (Non-condensing)		
Endurance	Acoustics Noise	<55dB @ 1 meters		

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



Main Features

- Zero Transfer time
- DSP Digital Control Based
- Li-ion Battery Powered
- Dry Contact control Interface for BMS
- ModBus interface with BMS
- li-ion Battery Charger
- ultra Wide Input Mains range
- Best Loading Capability
- Genset Compatible
- High Input power factor
- Reliable design
- Open to customization

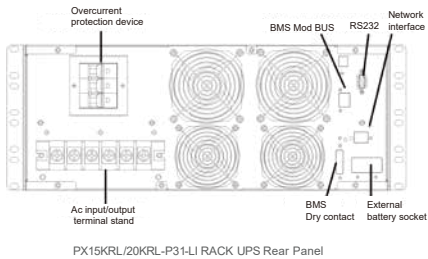


Features

- Ultra wide I/P voltage range;
- Clean power quality issues;
- Adapt to harsh power condition;
- Long back up time operation;
- Compatible with genset.

Applications

- 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, Telephones and Fax.



Specifications

Model		PX10KL-3P1-LI	PX15KL-3P1-LI	PX20KL-3P1-LI
Capacity	VA/W	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Topology		Double Conversion Online UPS		
Phase		Three-phase input/single-phase output		
Mains Input	Wiring	Single-phase two-line (L,N)+ protection ground or Three phase four wire (L1,L2,L3,N)+ protection ground		
	Rated Voltage	208/220/230/240VAC		
	Voltage Range	Single phase zero fire phase voltage: 90~300VAC / Three-phase line voltage: 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	Sine Wave		
	Distortion (THDV%)	<2%(Linear Load) <6%(None-Linear Load)		
	Over load capability	Mains mode, battery mode (240VDC) : 10 min @105%~125% rated load 30 seconds @126%~150% rated load 0.5 SEC @>150% rated load Battery mode (192VDC) : 10sec @102%~110% rated load 0.5 SEC @>110% rated load		
Efficiency	Utility Model	>94%		
	Battery Model	192VDC: >92% / 240VDC: >93%		
Battery & Charger	Rated Battery Voltage	192VDC/240VDC		
	Battery Capacity	External battery determination		
	Backup Time			
	Charging Current	4A		
	Charging Voltage	227.2V(3.55x64s) / 284V(3.55x80s) can be customized according to customer battery charging voltage		
Physical	Size	PX10k tower: 190 (w) x340 (h) x528 (d)MM PX10k rack: 3U 438(w) x132 (h) x530 (d) MM PX15K~20K tower: 238 (w) x528 (h) x555 (d)MM PX15K~20K Rack: 4U 438(w) x176 (h) x530 (d) MM		
Operating Environment Endurance	Temperature range	0~40°C		
	Relative Humidity	0-98% (Non-condensing)		
	Acoustics Noise	<55dB @ 1 meters		

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



Precautions for Product Operation

- 1). In order to prevent over-discharging of the lithium batteries, please restart the UPS when AC is available after low battery cutoff.
- 2). Before connecting the loads to the UPS, it's a must to check their nominal working voltage, current and polarity which you can find on there original adapters.
- 3). The output power of this model is controlled by total power capacity. The total power of the loads which connect to all the ports cannot exceed the maximum output power. Otherwise, the USE ports will be closed, and the light of status will be in yellow flashing. If the total power of the loads is still exceed the maximum power after the USB ports are closed, all the output ports will be closed, and all the lights of power indicator will be flashing. In this situation, please remove the exceed loads.
- 4). Press and hold the power key for 2-3 seconds to boot the UPS. If the output voltage indication light is green, this DC port is outputting voltage, and the output voltage can be selected between 9V and 12V by moving the DC voltage switch. The output voltage of PEC port can be selected between 15V and 24V by moving the POE voltage switch. After plugging in the grid, the status light become green for charging, 100% means it's full charge. In the process of charge, the power indicator light indicators the capacity of the battery by 25%, 50%, 75% and 100% increasingly. When disconnect the grid, the status light become red for battery backup status, and the power indicator light will turn off one by one from 100%, 75%, 50% to 25%. When the light of 25% is flashing, it means that the battery power is very slow, then press and hold the power key for 2-3 seconds to turn off the UPS and stop output voltage.
- 5). Plug-and-play USB provides stable charging to the digital products with their original charging cables.
- 6). UPS shut down automatically when it is low battery, it will restart with output power when AC recover.
- 7). If it's not used for long period, please keep full charge and keep it in a cool place. If the storage time is too long to turn on, please plug in the grid for charging till the status light become green. It's recommend to charge battery once per month.

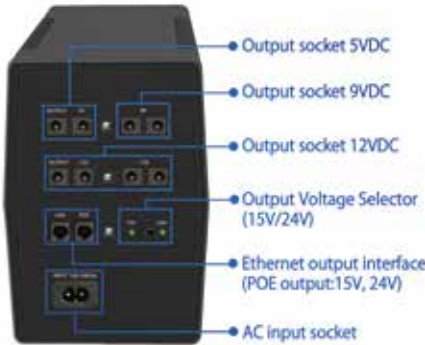
Specifications

Model	POE4570P				POE6090P				POE7590P			
Related working voltage	100-240Vac/ 50-60Hz											
Output power (Max.)	45W				60W							
Output	DC interface			POE interface	DC interface				POE interface			
Output voltage (selectable)	5V dc	9V dc	12 V dc	15Vdc/ 24Vdc	5Vdc	9Vdc	12Vdc	15Vdc/ 24Vdc				
Output polarity				+ 4,5pins-7,8pins					+ 4,5pins-7,8pins			
Output power & current (in common)	1.0A / 5W	1.0A/ 9W	2.0A / 24 W	0.6A(15 V 15W) or (24V 24W)	1.5A/ 7.5W	1.5A/ 13.5 W	2.0A/ 24W	1A(15V 15W) or (24V 24W)	2A/ 10W	2A/ 18W	3A/ 36W	1A(15V 15W) or (24V 24W)
Qty. & Capacity of battery	12V/7AH				12V/9AH							
Unit dimension(mm)	101* 142* 297				101* 142* 297							
Net weight(kg)	3.2				3.7				3.9			

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

Warning

- Do check the working voltage, current and polarity of the loads before connecting them to the UPS, then choose the corresponding voltage.
- Please charge fully before initial use.
- Dropping, hitting, disassembling and repairing privately are forbidden.
- Do not put the UPS into water or make it wet.
- Do not dispose of the UPS in fire or heating it.
- Do not use the UPS in any flammable environments.
- Do not put the UPS in any places where Children can reach.





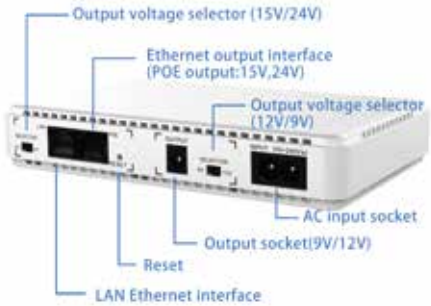
Precautions for Product Operation

- 1). In order to prevent over-discharging of the lithium batteries, please restart the UPS when AC is available after low battery cutoff.
- 2). Before connecting the loads to the UPS, it's a must to check their nominal working voltage, current and polarity which you can find on there original adapters.
- 3). The output power of this model is controlled by total power capacity. The total power of the loads which connect to all the ports cannot exceed the maximum output power. Otherwise, the USE ports will be closed, and the light of status will be in yellow flashing. If the total power of the loads is still exceed the maximum power after the USB ports are closed, all the output ports will be closed, and all the lights of power indicator will be flashing. In this situation, please remove the exceed loads.
- 4). Press and hold the power key for 2-3 seconds to boot the UPS. If the output voltage indication light is green, this DC port is outputting voltage, and the output voltage can be selected between 9Vand 12V by moving the DC voltage switch. The output voltage of PEC port can be selected between 15V and 24V by moving the POE voltage switch. After plugging in the grid, the status light become green for charging, 100% means it's full charge. In the process of charge, the power indicator light indicators the capacity of the battery by 25%, 50%, 75% and 100% increasingly. When disconnect the grid, the status light become red for battery backup status, and the power indicator light will turn off one by one from 100%, 75%, 50% to 25%. When the light of 25% is flashing, it means that the battery power is very slow, then press and hold the power key for 2-3 seconds to turn off the UPS and stop output voltage.
- 5). Plug-and-play USB provides stable charging to the digital products with their original charging cables.
- 6). UPS shut down automatically when it is low battery, it will restart with output power when AC recover.
- 7). If it's not used for long period, please keep full charge and keep it in a cool place. If the storage time is too long to turn on, please plug in the grid for charging till the status light become green. It's recom-mend to charge battery once per month.

Specifications

Model	POE1744L		
Related working voltage	100-240Vac/50-60Hz		
Output power (Max.)	17W		
Output	NA	DC interface	POE interface
Output voltage (selectable)	5Vdc	24Vdc/15Vdc 12Vdc/9Vdc	24Vdc/15Vdc 12Vdc/9Vdc
Output polarity			+4,5pins-7,8pins
Output power & current (in common)	1.0A/5W	9V/1A 12V1A 15V/1A 24V/0.6A	9V/1A 12V1A 15V/1A 24V/0.6A
Qty.& Capacity of battery	2200mAh*2		
Unit dimension(mm)	126*89*28		
Net weight(kg)	0.25		
Model	POE1788L		
Related working voltage	100-240Vac / 50-60Hz		
Output power(Max.)	17W		
Output	USB interface	DC interface	POE interface
Output voltage(selectable)	5Vdc	9Vdc / 12Vdc	15Vdc/24Vdc
Output polarity	NA		+4,5 pins- 7,8pins
Output power & current(in common)	1.0A/5W	1.0A/12W	0.6A(15V 10W) or (24V 15W)
QTY.& Capacity of battery	2200mAh*4		
Unit dimension(mm)	160*105*28		
Net weight(kg)	0.4		

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.





## PPS SERIES PORTABLE POWER STATION 1KVA-3KVA LCD DISPLAY



### Product Introduction

- PPS series portable power station product is a new generation product incorporating advance digital
- control technology and bidirectional Power Station topology, the product capable of output stable and
- clean AC power supply for emergency situation of power interruption ,and different type of DC power
- supply in form of USB charging port and DC port . ThePPS series portable power station product embed-
- ded high capacity Li-ion Battery , provide ultra long backup time, compact size etc., superior feature,
- saving valuable installation space, and light weight for portable application , the product integrated super
- charger make in possible to recharge the battery in very short time , perfectly meet needs of indoor and
- portable outdoor home and office appliance, consumer electronic, and IT infrastructure, finance, traffic
- control, manufacturing industry, education and government, etc.

### Routine Maintain

To make sure Power Station work normal, appropriate maintenance should be schedule periodically, below items should be checked:.

Check Power Station running status.

If the utility power is normal, Power Station should work in line mode or in battery mode.

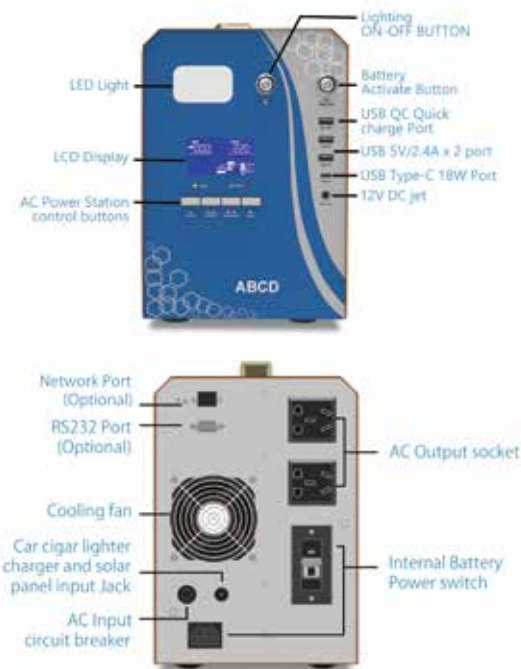
And there is no warning or fault indication.

Check Power Station running mode switch.

Cut off the line input to simulate the utility power interrupt, Power Station should transfer to battery mode, and connect the line input, Power Station return to line mode again.

Check Power Station panel.

Check Power Station panel display if it is consistent with Power Station running mode.



### Specifications

Model		PPS1000	PPS2000	PPS3000
Rated power		1KVA/1KW	2KVA/2KW	3KVA/3KW
Peak Power		1.5KW	3KW	4.5KW
Phase		1 phase input / 1 phase output		
Working Mode		Charging: Automatically charge the battery when mains on Power Station Mode: Auto switch to Power Station supply when AC mains interrupted within<10ms Power Station mode : Manual force Power Station turn on		
AC OUTPUT	Output wiring	1 phase 3 wire (L,N+PE)		
	Rated voltage	220/230/240VAC		
	Voltage regulation	±1%		
	Output frequency	50/60Hz±0.1%(Power Station Mode) / Same as input mains (Power Station Mode)		
	Output waveform	Sine wave		
	Harmonic distortion (THDV%)	<2%(Linear load) / <7%(Non Linear load)		
	Over load capability	30s@105%~120% rated power 10s@120%~150% rated power 0.2S@>150%rated power		
	Load type	Basically no limited		
DC Output		USB2.0 5V x 2A x 2 PCs, QC 3.0 Type C 18W x1pcs		
		DC099 12V*5A		
		High bright LED 2.5W		
Efficiency	Charging (AC->BAT)	Up to 92%		
	Discharge (BAT->AC)	Up to 90%		
Mains AC Input	Input wiring	1phase 3 wire (L,N)+PE		
	Input voltage range	90~300VAC		
	Frequency Range	40Hz-70Hz		
	Input PF	≥0.95@Full load		
Battery & Charger	Battery Type <sup>①</sup>	LiFePO4 Lithium Battery		
	Battery Capacity <sup>①</sup>	1000wh	2000wh	3000wh
	Backup time for 1 PC	8 Hour	16hour	24hour
	Recharge time	2hour recharge to 90% full capacity		
LCD Display		Input / Output Mains voltage, Freq, loading level, Operating mode, Status		

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.





Product Introduction

It is composed of three-element circuit board, s2dc inverter circuit board and 3P battery protection circuit board. Inverter 100W correction wave AC220V / 50Hz, subject to pure resistance load, USB port 5V / 2A (total). It is suitable for camping, emergency communication, medical rescue, fire rescue and other fields.

Precautions for Product Operation

- Strictly follow the operation steps of the product.
- For the heat dissipation space of the product, 5cm space is reserved around the product to make the heat dissipation convective.
- When the power of the product is insufficient, the load power exceeds the rated power or the ambient temperature is too high, the product will automatically start the protection function and turn off the output.
- For power charging, it is recommended to charge without load.
- If the power supply is not used for a long time, the power supply itself will be exhausted. Please make sure to charge it every 6 months.
- It is forbidden to use this product in flammable, explosive and corrosive gas environment such as gasoline and gas.
- If the product is accidentally flooded or invaded by other foreign substances, please send it to the Distribution Office for testing and treatment as soon as possible to ensure the safe use of the product. If it is caused by abnormal use, the company will charge for treatment according to the actual situation.



Specifications

Model		PPS100
Capacity		5000mAh * 3 Series 2 parallel
Cell		21700/4000mAh 0.5C
Battery Power		88WH
AC Power		Correction wave AC 220V / 50Hz
AC Peak Value		200W peak maintenance time < 50ms
Conversion Efficiency		85%≤
Class	Project	Specifications
INTPUT	DC input	PD bidirectional 20V / 3A 60W
AC OUT 220V	AC output voltage	1 AC socket AC220V ± 5%
	AC output power	100W
	AC output over power protection	About 120W
	AC output waveform	Correction wave
	AC output peak	200W peak maintenance time < 50ms
USB output port	Frequency	50Hz
	Usb1 output	5V/2A (Total)
Electric core	USB2 output	QC3.0 MAX 12V/1.5A
	type	Ternary lithium cell 21700 / 4000mAh
	capacity	24000mAh (3S2P)
	power	88WH
Charging parameters		PD 60W
Charging time		2.5-3.5H
Full voltage		Charge from 0% to 100% (automatic cut-off) The battery is charged to the voltage at automatic cut-off
LCD display	DC, AC and inverter status	The power column flashes, PD + in, and the power column is always on
	Static self power consumption	Switch status of USB QC 3.0 and AC
No load sleep	DC no load	< 700uA
	AC no load	The AC output will be automatically turned off after 1 minute
Protection function	Over temperature protection	When the AC is not turned on, it will automatically enter sleep for one minute
	Over temperature recovery	Short circuit, overload, overtemperature, overvoltage, overcurrent, undervoltage, etc The display will flash three times and turn off the AC symbol
Inverter over temperature protection	Over temperature protection	≥ 100℃
	Over temperature recovery	≤ 80℃

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



Product Introduction

The system consists of ternary lithium 6s8p battery protection board, DC charging circuit, MCU control circuit, inverter circuit and LCD screen. Inverter 500W pure sine wave AC220V / 50Hz, subject to pure resistance load, DC12V / 10A, USB QC3.0, TYPE-C PD3.0 It is suitable for camping, emergency communication, medical rescue, fire rescue and other fields.

Attention

- please follow the manuals.
- Please leave at least 5cm for the air vent. In case the device over-heating.
- The device will automatically shut off when the electricity of device is not enough or the discharging device watt is bigger than 500W, or in high temperature condition.
- Please don't charge and discharge at same time.
- If you don't use this device for a long time. The electricity may runs out. Please charge this device every 6 months.
- When loading some big watt products. If its instantaneous power is over 1000W. the device will automatically protect itself. It will turn off the output. Please make sure the loading product need no more than 1000W of instantaneous power.
- Please don't use this device under some extremely condition, eg: flammable or corrosive condition.
- If you drop the device into water by accident. Please send back it to where you purchased. We will take care it. If the device damaged by wrong use. We will charge accordingly.



Specifications

Model		PPS500A
Capacity		2800mAh * 6 Series 8 parallel 134400mAh
Cell		18650/2800mAh 3C
Battery Power		497WH
AC Power		Sine wave AC 500W 220V / 50Hz
AC Peak Value		1000W peak maintenance time < 50ms
Conversion Efficiency		85%≤
Class	Project	Specifications
INTPUT	DC input	DC5521 12-24V-5A
	AC output voltage	1 AC socket AC220V ± 5%
AC OUT 220V	AC output power	500W
	AC output over power protection	About 550W
	AC output waveform	Correction wave
	AC output peak	1000W peak maintenance time < 50ms
	Frequency	50Hz
USB output port	Usb1 output	QC3.0 MAX 12V/1.5A
	USB2 output	QC3.0 MAX 12V/1.5A
	TYPE-C1 output	PD/QC3.0 MAX 12V/1.5A
DC12V output	DC1 DC2 output	12V/10A MAX
Type-C output / input	TYPE-C2	Pd60w output
Electric core	type	Ternary lithium cell 18650 / 2800mah
	capacity	134400mAh (6S8P)
	power	497WH
	cycle life	More than 1000 times
Charging parameters		DC 12-24V/5A
Charging time	6-7H	Charge from 0% to 100% (automatic cut-off)
Full voltage	25.2V ± 0.1V	The battery is charged to the voltage at automatic cut-off
LCD display	Display the power, charge and stop charge status	The power column flashes, PD + in, and the power column is always on
	DC, AC and inverter status	Switch status of USB QC 3.0 and AC
Boot static		< 10W
Protection function		Short circuit, overload, overtemperature, overvoltage, overcurrent, undervoltage, etc
Inverter over temperature protection	Over temperature protection	≥ 85℃
	Over temperature recovery	≤ 70℃

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



Product Introduction

The design system consists of ternary lithium 8s5p battery protection board, DC charging circuit, MCU control circuit, inverter circuit and LCD screen. Inverter 500W pure sine wave AC220V / 50Hz, subject to pure resistance load, DC12V / 10A, USB QC3.0, TYPE-C PD3.0 It is suitable for camping, emergency communication, medical rescue, fire rescue and other fields.

Precautions for Product Operation

- Strictly follow the operation steps of the product.
- For the heat dissipation space of the product, 5cm space is reserved around the product to make the heat dissipation convective.
- When the power of the product is insufficient, the load power exceeds the rated power or the ambient temperature is too high, the product will automatically start the protection function and turn off the output.
- For power charging, it is recommended to charge without load.
- If the power supply is not used for a long time, the power supply itself will be exhausted. Please make sure to charge it every 6 months.
- It is forbidden to use this product in flammable, explosive and corrosive gas environment such as gasoline and gas.
- If the product is accidentally flooded or invaded by other foreign substances, please send it to the Distribution Office for testing and treatment as soon as possible to ensure the safe use of the product. If it is caused by abnormal use, the company will charge for treatment according to the actual situation.



Specifications

Model		PPS500B
Capacity		4000mAh * 8 Series 5 parallel
Cell		26700/4000mAh 1.5C
Battery Power		512WH
AC Power		Sine wave AC 220V/50Hz
AC Peak Value		1000W peak maintenance time < 50ms
Conversion Efficiency		85%≤
Class	Project	Specifications
AC OUT 220V	INTPUT	DC input
		DC5521 12-24V-5A
	AC output voltage	1 AC socket AC220V ± 5%
	AC output power	500W
	AC output over power protection	About 550W
	AC output waveform	Correction wave
USB output port	AC output peak	1000W peak maintenance time < 50ms
	Frequency	50Hz
	Usb1 output	QC3.0 MAX 12V/1.5A
	USB2 output	QC3.0 MAX 12V/1.5A
TYPE-C1 output		PD/QC3.0 MAX 12V/1.5A
DC12V output		DC1 DC2 output
		12V/10A MAX
Type-C output / input		TYPE-C2
		Pd60w output
Electric core	type	Lithium iron phosphate cell 26700 / 4000mAh
	capacity	20Ah (8S5P)
	power	512WH
	cycle life	More than 1000 times
Charging parameters		DC 12-24V/5A 100W MAX
Charging time		6-7H
Full voltage		Charge from 0% to 100% (automatic cut-off)
Led blue light	Display the power, charge and stop charge status	The battery is charged to the voltage at automatic cut-off
	DC, AC and inverter status	Power percentage and power column display
Boot static		Led blue light display
Protection function		< 10W
Inverter over temperature protection	Short circuit, overload, overtemperature, overvoltage, overcurrent, undervoltage, etc	
	Over temperature protection	≥ 85℃
Shutdown power consumption	Over temperature recovery	≤ 70℃
		<850uA

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

## PURE SINE WAVE INVERTER

## HALO SERIES PORTABLE POWER STATION 1KVA-2.5KVA LCD DISPLAY

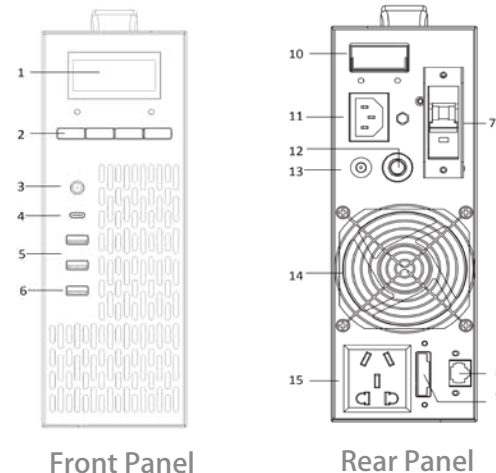


### Product Introduction

- **Super Quick Charging** : Embedded Super Charger, Recharge the battery from to full charge in minimum 1 hour .
- **Smart Charging** : programmable charging voltage/current/method, support constant current, constant voltage, floating , balancing , cut-off method, adapt to wide range of battery type. Further provide optional MODBUS , dry contact signal port for coordinating with battery management system (BMS) .
- **Ultra Long backup time** : Compatible with external Lithium battery Powered product support up to 24hour back up time .
- **No External Charger** : Integrated super charger, free from cumbersome standalone charge, plug and play for charging, extremely easy for use.
- **Outstanding loading capability** : Output 220/230/240V, 50/60Hz perfect sine-wave , strong overloading capability for surge loading impact, widely adapt to electric tools, computer, printer , ultrasonic cleaner etc.home and office applicant , smart loading matching function further compatible to applicant that rated power higher than the power station itself.

### Outlook

1. LCD Display
2. Inverter Control Button
3. 12V DC output
4. USB PD Type-C (18W) x 1 port
5. USB 5V/2.4A x 2 port
6. USB QC (18W) x 1 port
7. Battery Circuit Breaker
8. MODBUS Port(for Li-ion Battery)
9. Charging control dry contact signal Port(for Li-ion Battery)
10. External Battery Connector
11. AC Input socket
12. Input circuit breaker
13. Car Charger/Solar Panel Input Jet/
14. Cooling fan
15. AC Output socket



Front Panel

Rear Panel

## PURE SINE WAVE INVERTER

### Specifications

Model		Halo1000	Halo1800	Halo2500
Rated power		1KVA/1KW	1800VA/1800W	2500VA/2500W
Peak Power		1.5KW	2.7KW	3.75KW
Phase		1 phase input / 1 phase output		
Working Mode		Charging: Automatically charge the battery when mains on UPS Mode: Auto switch to inverter supply when AC mains interrupted within<10ms Inverter mode : Manual force inverter turn on		
AC OUTPUT	Output wiring	1 phase 3 wire (L,N+PE)		
	Rated voltage	208/220/230/240Vac		
	Voltage regulation	±1%		
	Output frequency	50/60Hz±0.1%(Inverter Mode) Same as input mains (UPS Mode)		
	Output waveform	Sine wave		
	Harmonic distortion (THDV%)	<2%(Linear load) <7%(Non Linear load)		
	Over load capability	30s@105%~120% rated power 10s@120%~150% rated power 0.2S@>150%rated power		
	Load type	Basically no limited		
	Allow Load PF	Leading (Captive) 0.1 - 1 Lagging (Inductive) 0.1~1		
DC Output		USB2.0 5V x 2A x 2 pcs; QC 3.0 18W x1pcs; Type C 18W x1pcs DC099 12V*5A		
Efficiency	Charging	Up to 92%		
	Discharge	Up to 90%		
Mains AC Input	Input wiring	1phase 3 wire (L,N)+PE		
	Input voltage range	90~300VAC		
	Frequency Range	30Hz-80Hz		
	Input PF	≥0.95@Full load		

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Custom-made specifications are acceptable.



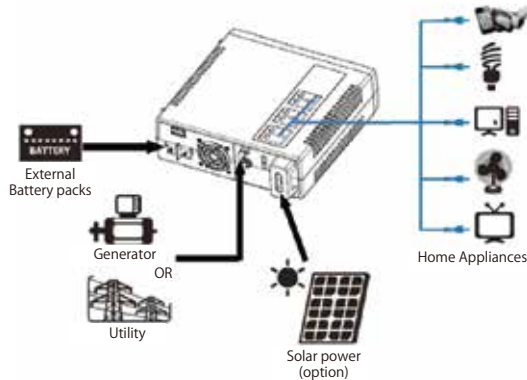
SV SERIES  
HOME SOLAR INVERTER 1200VA/2400VA  
LEM DISPLAY



Main Features

- Simulated Sine wave Inverter;
- Built-in 30Amp and 50Amp Solar Charge Controller;
- MFD, multi-function display;
- DOD Auto setting by system or by hand;
- Solar Priority charge and output;
- Power saving mode;
- Overload & short- circuit protection;
- Battery Reverse polarity protection;
- Auto restart while AC/Solar is recovering;
- Adjustable solar and utility charging current;
- Multi install options: horizontal, vertical, and wall mount;
- Generators & Computer-related devices compatible.

Applications



Rear Panel



Specifications

MODEL	SV1200	SV2400
Capacity	1200VA/720W	2400VA/1440W
INPUT		
Voltage	220/230/240 VAC	
Voltage Range	162-290 VAC /90-290 VAC	
Frequency Range	50Hz	
OUTPUT		
AC Voltage Regulation (Bat Mode)	±10%	
Frequency Range (Bat Mode)	50Hz ± 1Hz	
Transfer time	Typical 20ms	
Waveform (Bat Mode)	Simulated Sine Wave	
Peak Efficiency(AC Mode)	>95% @ Full R load	
BATTERY		
Battery Voltage	12VDC	24VDC
AC CHARGER		
Floating Charging Voltage	13.7VDC	27.4VDC
Max Charging Current	10A/20A Selectable	
SOLAR CHARGER		
Solar Charger Input	15-40VDC	30-60VDC
Solar Charger Output	13.7VDC	27.4VDC
Solar Charger Current	30A/50A Selectable	
Power Saving Mode	While Solar is charging, AC charger stop automatically to save AC power	
PROTECTION		
Full Protection	Overload, discharge, overcharge, over temperature and short circuit protection	
INDICATORS		
Line Mode	Color LED	
Battery Mode	Indicating Line Mode, Battery Mode, AC Charging Mode, Solar Charging Mode, Load Level, Battery Level, and fault etc.	
ENVIRONMENT		
Humidity	0-90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 50°C	
PHYSICAL		
Dimension, D*W*H(mm)	288*272*90	
Net Weight (kgs)	2.8	3
PACKAGE		
QTY/20FT	1640PCS with Pallet	
QTY/40GP	3400PCS with Pallet	

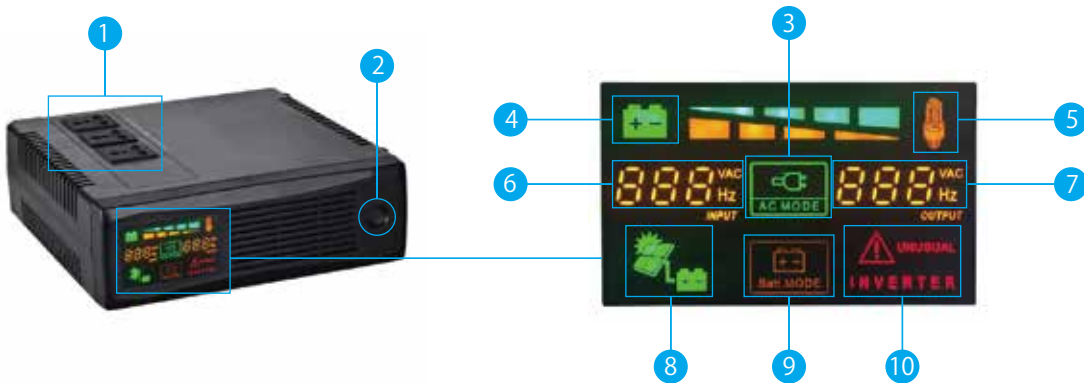
※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

MV SERIES  
HOME INVERTER 1200VA/2400VA  
LEM DISPLAY



Main Features

- Simulated sine wave inverter;
- Sensitivity selector (UPS mode & Inverter mode);
- 10A/20A selectable AC charging current;
- Off mode charging function;
- Auto restart while AC is recovering;
- Cold start function;
- Multiple install options: horizontal, vertical, and wall mount;
- Surge, Over load, Short circuit, Over temperature, Over charging Protection;
- Generators & Computer-related devices compatible;
- Home use for DVD, TV, Lights and Fans.



- 1

socket, can be changed accordingly
- 2

power key
- 3

AC mode
- 4

battery capacity
- 5

loading capacity
- 6

input voltage
- 7

output voltage
- 8

solar battery charging
- 9

battery mode
- 10

error

Specifications

MODEL	MV1200	MV2400
Capacity	1200VA/720W	2400VA/1440W
INPUT		
Voltage	220/230/240 VAC	
Voltage Range	162-290 VAC /90-290 VAC	
Frequency Range	50Hz	
OUTPUT		
AC Voltage Regulation (Bat Mode)	±10%	
Frequency Range (Bat Mode)	50Hz ± 1Hz	
Transfer time	Typical 20ms	
Waveform (Bat Mode)	Simulated Sine Wave	
Peak Efficiency (AC Mode)	>95% @ Full R load	
BATTERY		
Battery Voltage	12VDC	24VDC
AC CHARGER		
Floating Charging Voltage	13.7VDC	27.4VDC
Max Charging Current	10A/20A Selectable	
PROTECTION		
Full Protection	Overload, discharge, overcharge, over temperature and short circuit protection	
INDICATORS		
Line Mode	Color LED	
Battery Mode	Indicating Line Mode, Battery Mode, AC Charging Mode, Solar Charging Mode, Load Level, Battery Level, and fault etc.	
ENVIRONMENT		
Humidity	0-90% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 50°C	
PHYSICAL		
Dimension, D*W*H(mm)	288*272*90	
Net Weight (kgs)	2.8	3
PACKAGE		
QTY/20FT	1640PCS with Pallet	
QTY/40GP	3400PCS with Pallet	

※ All Specifications subject to change without notice.  
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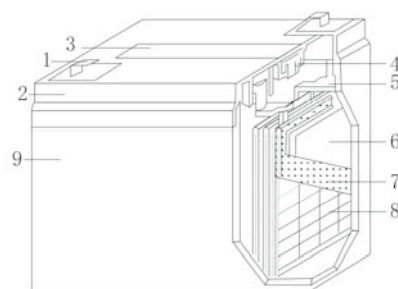


### Feature

- Sealed Construction and Leakproof : Batteries have special construction and uses advanced sealing techniques to ensure leak-proof during normal operations.
- Maintenance-Free Operation: Refilling is not necessary to all sealed lead acid battery.
- Gas Generation: During float usage, over 99% of gases generated will be recombined inside the battery.
- Operating in any Position: With the advanced sealed and leakproof construction, batteries are able to operate in any position.
- Low Self-Discharge: With our innovative technology, self-discharge rate of batteries can reach lower than 3% of rated capacity per month under normal operating temperature, enable batteries to be stored for a long period of time.
- Long Service Life: batteries are designed to provide longer service to user. More than 1000 charge/discharge cycles can be expected, depending on the average depth of discharge. In float applications, NP Series batteries can service for 3 to 5 years and GM Series can service for 10 to 15 years.
- No Memory Effect: There is no memory effect for a sealed lead acid battery after repetitious usage or recharge.
- Deep Discharge Recovery: Improved design enables the battery to have a better recovery after repeated deep discharges.

### Construction

- Terminal
- Cover
- Valve Cover
- Safety Valve
- Inter-cell Connector
- Negative Electrode
- AGM Separator
- Positive Electrode
- ABS Container



### Applications

- CHAMPION batteries are designed to be used at a wide range of products.
- They can be classified as either Cycle or Standby applications.
- Here are some examples of those common applications.

### Specifications

Battery Model	Capacity	Size (mm) L * W * H	Weight (kg)	Capacity(AH)@25°C, 1.75V/Cell				
				1HV	3HV	5HV	10HV	20HV
12V12AH	12	151*98*102	3.3	7.0	9.1	10.5	11.0	12.0
12V17AH	17	181*76*167	4.8	8.0	10.6	12.0	13.0	14.0
12V20AH	20	181*76*167	5.3	9.9	13.5	15.3	17.0	18.0
12V24AH	24	177*167*125	7.2	12.0	15.3	17.5	18.5	20.0
12V38AH	38	198*166*170	11.3	18.3	25.0	28.2	32.0	33.0
12V38AH	40	198*166*170	12.0	22.0	29.0	33.0	38.0	40.0
12V65AH	60	350*166*180	17.5	32.0	43.0	47.5	55.0	58.0
12V65AH	70	350*166*180	19.5	38.0	50.0	57.0	65.0	68.0
12V100AH	90	407*173*236	27.5	51.0	69.0	78.0	90.0	100
12V100AH	100	407*173*236	28.8	59.0	78.0	88.0	100	110
12V120AH	115	407*173*236	31.5	61.0	79.0	90.0	110	120
12V120AH	125	407*173*236	33.5	70.0	92.0	105	120	130
12V150AH	145	483*170*240	41.0	75.0	102	115	135	148
12V150AH	155	483*170*240	42.0	87	115	130	150	165
12V200AH	200	522*240*222	54.0	90.0	122	140	160	176
12V200AH	210	522*240*222	58.0	105	140	155	180	198

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

### Cycle Use

- Rechargeable Lanterns
- Power tools, lawn mowers, vacuum cleaners
- Portable Audio & Video equipment
- Portable computing equipment
- Electric driven wheelchairs or bicycle
- Toys and consumer electronics
- Solar power devices

### Standby use

- Uninterruptible power supply
- Emergency lighting system
- Security system and fire alarm
- Telecommunication systems
- Communication equipments
- Medical equipment

## HT SERIES AVR UPS 400VA-1000VA LCD DISPLAY



### Main Features

- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);

### Advantages

- Various types of sockets are optional;
- Display LED/LCD/LEM optional;
- USB charging port optional;
- Monitoring mode USB/RS232/SNMP optional;
- Input IEC C14 / line input optional;
- Replaceable battery.

### Applications:



PC



Monitor



ADSL



POS



Home Appliance



### Specifications

MODEL	HT450	HT650	HT850	HT1000
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145VAC or 162-290VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	275*200*117			
Net Weight (kgs)	4.2	4.7	5.4	5.4
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.



## HT SERIES AVR UPS 400VA-1000VA LED DISPLAY



### Main Features

- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);

### Advantages

- Various types of sockets are optional;
- Display LED/LCD/LEM optional;
- USB charging port optional;
- Monitoring mode USB/RS232/SNMP optional;
- Input IEC C14 / line input optional;
- Replaceable battery.

### Applications:



PC



Monitor



ADSL



POS



Home Appliance



### Specifications

MODEL	HT450	HT650	HT850	HT1000
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145VAC or 162-290VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	275*200*117			
Net Weight (kgs)	4.2	4.7	5.4	5.4
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.

## HT SERIES AVR UPS 400VA-1000VA LEM DISPLAY



### Main Features

- Excellent microprocessor control optimizes reliability;
- Built super smart charger, shorten charging time;
- Boost and buck AVR for voltage stabilization;
- Simulated sine wave;
- Auto restart while AC is recovering;
- Power-on self test;
- Built-in self-diagnostic function;
- Off mode charging function;
- Intelligent battery management;
- Optional no-load shut down;
- Humanized alarm system;
- Compatible with generator set (optional);

### Advantages

- Various types of sockets are optional;
- Display LED/LCD/LEM optional;
- USB charging port optional;
- Monitoring mode USB/RS232/SNMP optional;
- Input IEC C14 / line input optional;
- Replaceable battery.

### Applications:



PC



Monitor



ADSL



POS



Home Appliance



### Specifications

MODEL	HT450	HT650	HT850	HT1000
Capacity	450VA/240W	650VA/360W	850VA/480W	1000VA/600W
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145VAC or 162-290VAC			
Frequency Range	60/50 Hz (Auto sensing)			
OUTPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
AC Voltage Regulation (Bat Mode)	±10%			
Frequency Range (Bat Mode)	60Hz or 50Hz ± 1Hz			
Transfer time	Typical 2-6ms			
Waveform (Bat Mode)	Simulated Sine Wave			
BATTERY				
Battery Type&Number	12V 4.5Ah*1	12V 7Ah*1	12V 9Ah*1	12V 9Ah*1
Floating Charging Voltage	13.7VDC			
Charging ability	4-6 hours recover to 90% capacity			
PROTECTION				
Full protection	Short circuit, Overload, Battery discharge and overcharge, Surge protection			
INDICATIONS				
Line mode	Green lighting			
Battery mode	Yellow flashing			
Fault	Red lighting			
ALARM				
Battery mode	Sounding every 10 seconds			
Low battery	Sounding every second			
Overload	Sounding every 0.5 seconds			
Battery Replacement Alarm	Sounding every 2 seconds			
Fault	Continuously sounding			
COMMUNICATIONS				
USB/RS232/SNMP (options)	Supports Windows 2000/2003/XP/Vista/2008,Windows 7/8 Linux Unix and MAC			
ENVIRONMENT				
Humidity	0-90% Relative Humidity 0-40 °C (Non-condensing)			
Noise Level	Less than 40dB			
Dimension, D*W*H(mm)	275*200*117			
Net Weight (kgs)	4.2	4.7	5.4	5.4
QTY/20FT	2000PCS without Pallet		1600PCS with Pallet	
QTY/40GP	4384PCS without Pallet		3360PCS with Pallet	
QTY/40HQ	4888PCS without Pallet		3780PCS with Pallet	

※ All Specifications subject to change without notice.  
Custom-made specifications are acceptable.