

Flexible Power | Inflexible Protection



*ENGINEERING POWER*  
**EP SI**  
*SYSTEM INTERNATIONAL LTD SARL*



## UPS Capacity Range

		Capacity(KVA)																	
Model	Phase	1	2	3	5	6	10	15	20	30	40	50	60	80	100	120	160	200	
W	1/1																		
RW	1/1																		
3W	3/1																		
3W3	3/3																		
B	1/1																		
3B	3/1																		
3B3	3/3																		
3RW	3/3																		



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**RW**  
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**B**  
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**W/3W**  
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**3B**  
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**3W3**  
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**3B3**  
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**3RW**  
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## Software and Accessorie

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**Battery**  
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**N**  
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## Pictures



W2K/3K (LCD)



W1K (LCD)



W1-3K (LED)

## Key Point

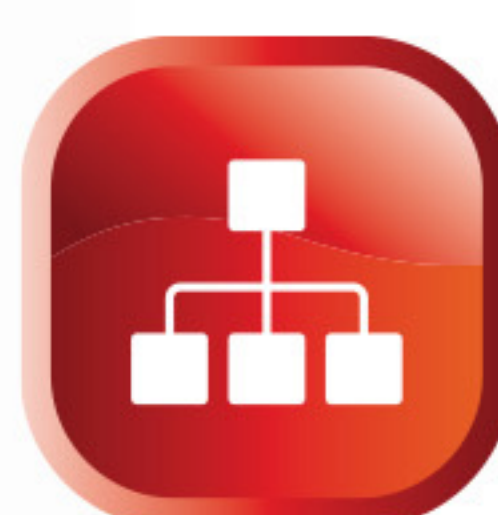
Range:1–3KVA

Type:High Frequency 1:1

Rated Voltage:220VAC

Rated Frequency:50/60Hz

Output PF:0.7/0.8(optional)



Network



Industrial



Medical



Data security



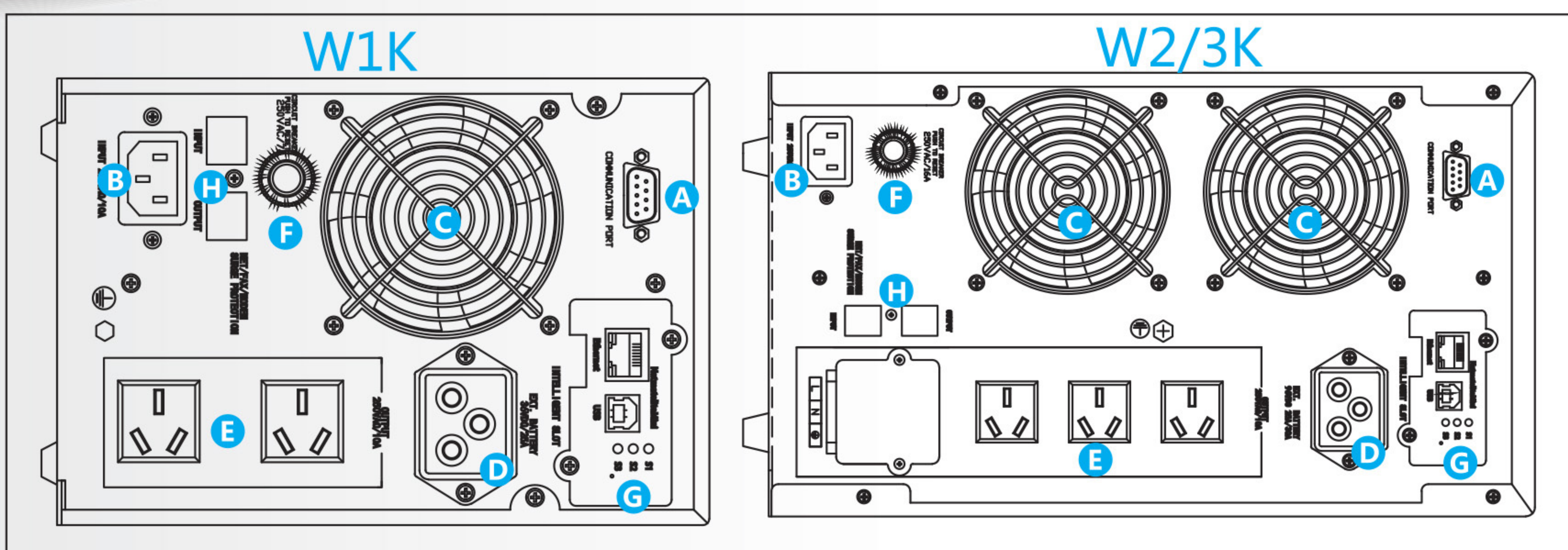
Data processing

## Key Feature

- Pure sine wave output
- Wide input voltage and frequency range
- Large LCD & LED display
- Microprocessor control, self-check, battery check by itself

- Online static bypass, strong protection for overload and UPS fault
- RS232 & SNMP for optional, to provide remote control management
- MTBF is more than 200,000 hours, and MTTR is 20 minutes

## Rear Panel



- A** RS232
- B** Mains Input Port
- C** Fans
- D** External Battery Input Port
- E** UPS Power Input Port
- F** Fuses
- G** Intelligent Slot
- H** Surge Protection Socket



Parameters

Model		W1KL(s)	W2KL(s)	W3KL(s)
Capacity		1000VA	2000VA	3000VA
Input	Voltage	120VAC–300VAC		
	Frequency	45–65Hz		
	Power Factor	≥95%		
Output	Voltage	220VAC ± 2%		
	Frequency	50/60Hz ± 0.05% ( battery mode )		
	Efficiency	> 0.85		
	Power Factor	0.7 / 0.8 ( optional )		
	Crest Factor	>3: 1		
	Distortion THD	Non–linear Load THD < 5% ; Linear Load THD < 3%		
	Overload	< 130% 30s ; > 130% 200ms		
Battery	Type	Valve Controlled Sealed Lead–acid Battery		
	DC Voltage	36VDC	96VDC/72VDC	96VDC/72VDC
	Quantity for Standard Type	12V / 7Ah × 3pcs	12V / 7Ah × 8 / 6pcs	12V/7Ah × 8pcs /12V/9Ah × 6pcs
Transfer Time	AC Fault	0ms		
	UPS Fault	<4ms		
Protection	Short Circuit	Shut Off Inverter and Bypass Output		
	Over Temperature	Transfer to Bypass Output Automaticly		
Display	LCD	Input Voltage、 Output Voltage、 Current、 Frequency、 Battery Voltage & Charging Current、 Fault、 Alarm		
	LED	UPS Status		
Alarm	Battery Low Voltage	Alarm Each Second		
	UPS Overload	Alarm Continuely		
	UPS Fault	Alarm Continuely		
Communication Interface		RS232 ( SNMP & USB optional )		
Environ –ment	Temperature	0℃–40℃		
	Humidity	≤95%		
	Noise ( within 1 meter )	<45dB	<50dB	
Weight ( Net Weight )		7Kg + 6.75Kg	14Kg + 18/13.5Kg	15Kg + 18/18.9Kg
Dimension W×D×H ( mm) for UPS		145 × 405 × 220	195 × 455 × 330	

※Note： can supply both input & output on 110VAC  
Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



## Pictures



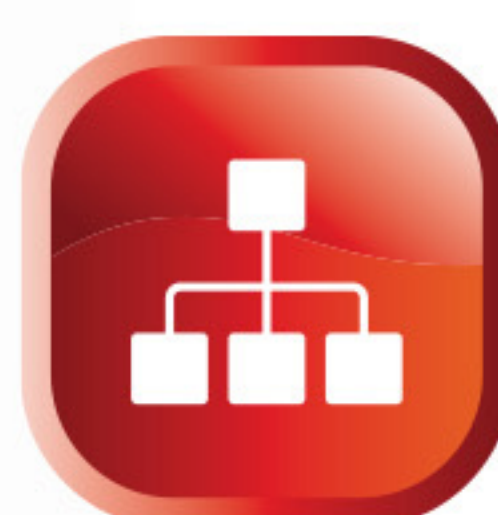
RW1-3K



RW6K/10K

## Key Point

Range:1–10KVA  
Type:High Frequency 1:1  
Rated Voltage:220VAC  
Rated Frequency:50/60Hz  
Output PF:0.8



Network



Industrial



Medical



Data security



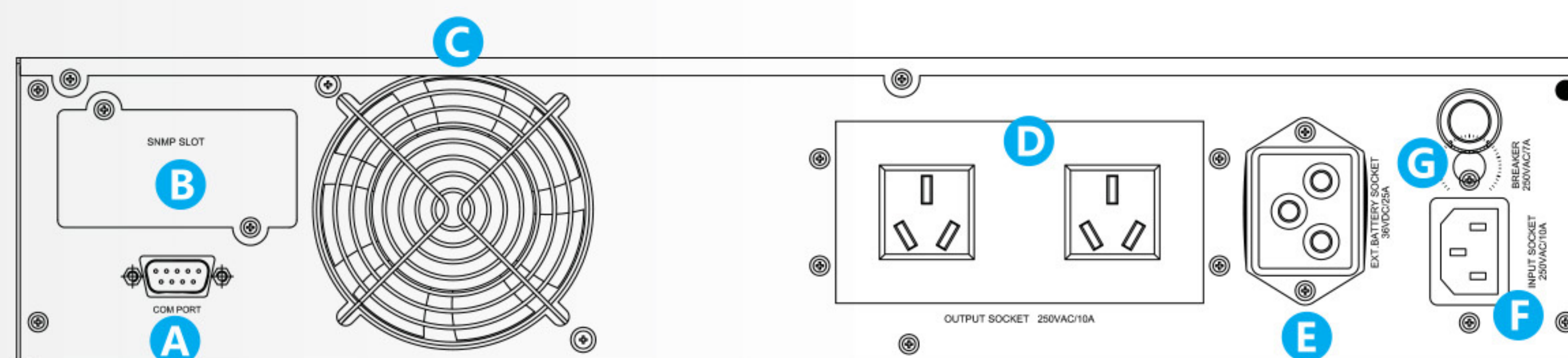
Data processing

## Key Feature

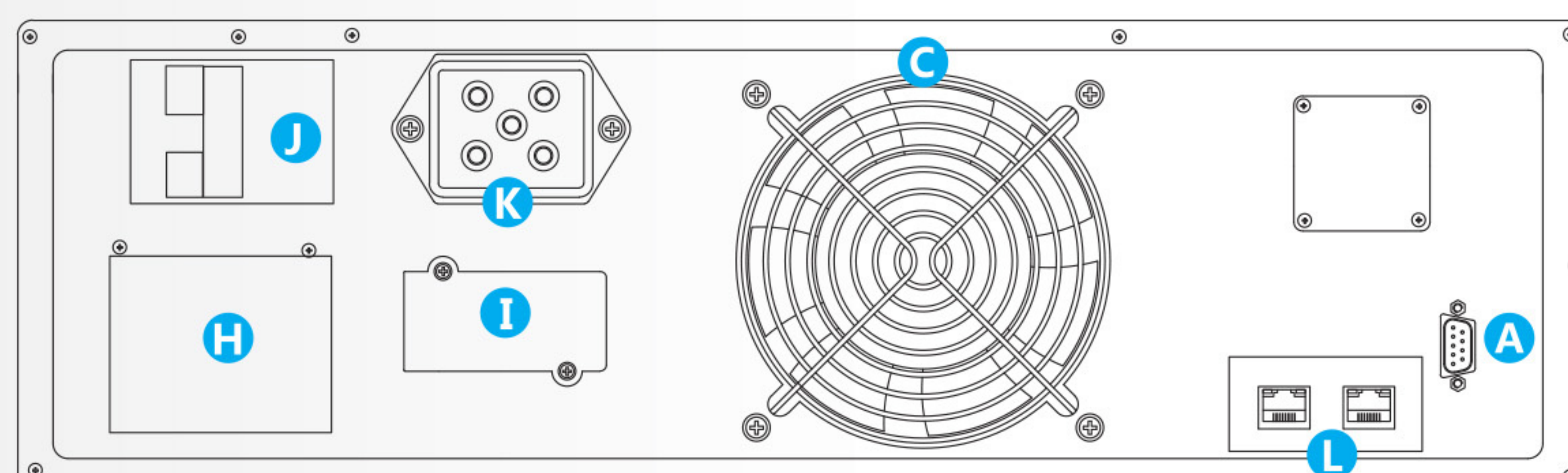
- Pure sine wave output
- Strong N+X redundant and parallel function
- Large LCD, can be rotated in 90 degrees
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and ups fault
- RS232 & SNMP for optional, to provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes

## Rear Panel

RW 1–3K



RW 6/10K



- A** RS232
- B** SNMP Card Slot
- C** Fans
- D** UPS Output Sockets
- E** External Battery Input Port
- F** Mains Input Port
- G** Fuses
- H** Input and Output Line Bank
- I** Intelligent Slot
- J** Input Protection Switch
- K** External Battery Input Port
- L** Surge Protection Socket



## Parameters

Model		RW1KL(s )	RW2KL(s )	RW3KL(s )	RW6KL(s )	RW10KL(s )
Capacity		1000VA	2000VA	3000VA	6000VA	10000VA
					N + X parallel ( up to 3pcs )	
Input	Voltage system	Single phase three wire				
	Voltage	120VAC–300VAC			120VAC–276VAC	
	Frequency	45–55Hz(55–65Hz )				
	Input Power Factor	≥85%			≥95%	
Output	Voltage	220VAC ± 1%				
	Frequency	50/60Hz ± 0.2% ( battery mode )				
	Efficiency	> 0.8				
	Distortion THD	Linear Load THD < 3% ; Non Linear Load THD < 5%				
	Power Factor	0.8 LAG				
	Dynamic Response	Full Load ± 3%				
	Crest Factor	> 3 : 1				
	Overload	105% / 125% / 150% Load , Last Time is 5min / 1min / 10sec			192VDC	105% – 125% for 1min, More Than for 130% 1sec
					240VDC	105% – 125% for 10mins, More Than 130% for 30ms
Wave Form	Sine Wave					
Battery	Type	Valve Controlled Sealed Lead–acid Battery				
	DC Voltage	36VDC	72VDC		192/240VDC	
	Quantity of Battery	12V/7AH × 3pcs	12V/7AH/9AH × 6pcs		12V/7AH × 16/20pcs	
Transfer Time	AC Fault	0ms				
	UPS Fault	0ms				
Protection	Short Circuit	Shut Off Inverter and Bypass Output				
	Over Temperature	Transfer to Bypass Output Automaticly				
Display	LCD	Transfer to Bypass Output Automaticly Input Voltage、Output Voltage、Current、Frequency、Battery Voltage & Charging Current、Fault、Alarm				
	LED	UPS Status				
Alarm	Battery Low Voltage	Alarm Each Second				
	AC Fault	Alarm Every 4 Seconds				
	UPS Overload	Alarm Continuely				
	UPS Fault	Alarm Continuely				
Interface		RS232 & SNMP ( optional )				
Environ –ment	Temperature	0℃–40℃				
	Humidity	≤95%				
	Noise ( at 1 meter )	<50dB			<55dB	
Weight(Net Weight)		7.8kg + 6.75kg	9.6kg + 13.5/18.9kg	10.0kg + 13.5/18.9kg	19kg + 36/45kg	21kg + 36/45kg
Dimension W × D × H ( mm ) for UPS		437*468*88(2U)			445*615*130 ( 3U)	

※Note: can supply both input & output on 110VAC.

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



## Pictures



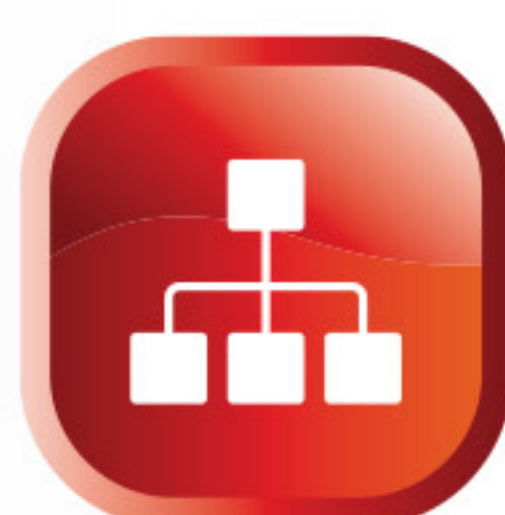
## Panel Shows



- |                 |               |
|-----------------|---------------|
| 1 Input         | 6 Fault       |
| 2 By-pass       | 7 LCD display |
| 3 Output        | 8 LCD return  |
| 4 Battery power | 9 UPS On/Off  |
| 5 Over-load     |               |

## Key Point

Range:2–20KVA  
Type:Low Frequency 1:1  
Rated Voltage:220VAC  
Rated Frequency:50/60Hz  
Output PF:0.8–1LAG



Network



Industrial



Medical



Data security



Data processing

## Key Feature

- Pure sine wave output
- Wide input voltage
- Friendly interface design of LCD
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and UPS fault
- RS232 & SNMP for optional, to provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes



## Parameters

Model		B2KL(S)	B3KL(S)	B3.75/4KL(S)	B5/6KL(S)	B10KL	B10KS	B15KL	B20KL
Capacity		2KVA	3KVA	3.75/4KVA	5/6KVA	10KVA	10KVA	15KVA	20KVA

Input	Voltage	220VAC $\pm$ 25%							
	Frequency	50Hz $\pm$ 10%/60Hz $\pm$ 10%							

Output	Voltage	220VAC $\pm$ 1%							
	Frequency	50 $\pm$ 0.5%/60Hz $\pm$ 0.5%(free running )							
	Dynamic Response	Full Load $\pm$ 4%							
	Wave Form	Sine Wave							
	Crest Factor	3 : 1 ( for rectifier load )							
	Efficiency	> 85%							
	Rated Output PF	0.8 – 1 LAG							
	Distortion THD	Non Linear Load THD < 5% ; Linear Load THD < 3%							
	Overload	< 130% Transfer to Bypass and Recover Automaticly after 30s 130% – 150% Transfer to Bypass and Recover Automaticly after 20s							

Battery	Type	Valve Controlled Sealed Lead–acid Battery							
	DC Voltage	96VDC/192VDC		192VDC					
	Quantity for Standard Backup	12V/7Ah $\times$ 8pcs/16pcs		12V/12Ah $\times$ 16pcs					

Transfer Time	Bypass to Inverter	0ms							
	Inverter to Bypass	< 2ms							

Protection	Short Circuit	Shut Off Inverter and Bypass Output							
	Over Temperature	Transfer to Bypass Automaticly							
	EMI Filter	10Hz – 100kHz , 40dB / 100k – 100MHz, 70dB							
	Battery	Non–fuse Breaker							

Display	LCD	Input Voltage、 Output Voltage、 Current、 Frequency、 Battery Voltage、 Load、 UPS Status、 Temperature etc.							
	LED	Input / Bypass / Inverter / Battery / Overload / Fault							

Alarm	AC Fault	Alarm Every 2 Seconds , Stop after 90 Seconds							
	Battery Low Voltage	Continuely Alarm Every Second Until UPS Shut Down , Battery LED Flash Every 2 Seconds							
	UPS Overload	Continuely Alarm							
	UPS Fault	Continuely Alarm							

Communication Interface	RS232								
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Environ –ment	Temperature	0°C–40°C							
	Humidity	< 95% ( no condensing )							
	Noise ( at 1 meter )	<58dB							

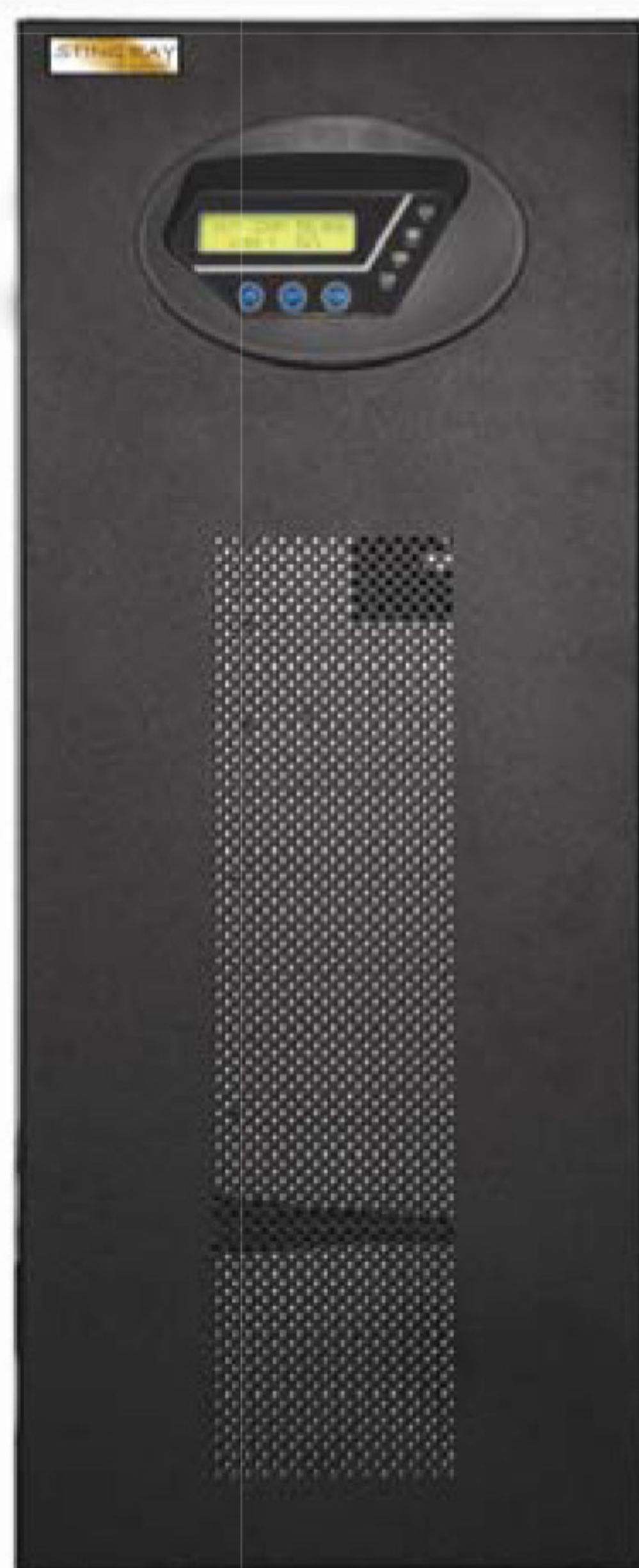
Weight ( Net Weight )	54Kg+18/36Kg	58Kg+18/36Kg	52Kg+36Kg	54Kg+36Kg	116Kg	161Kg	127Kg	213Kg
Dimension W×D×H ( mm) for UPS	230 × 590 × 540 ( L ) /270 × 590 × 750 ( S )				480 × 340 × 860	480 × 540 × 860	480 × 520 × 940	480 × 620 × 1000

※Note: Supply Both Input & Output on 110VAC

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



## Pictures



## Key Point

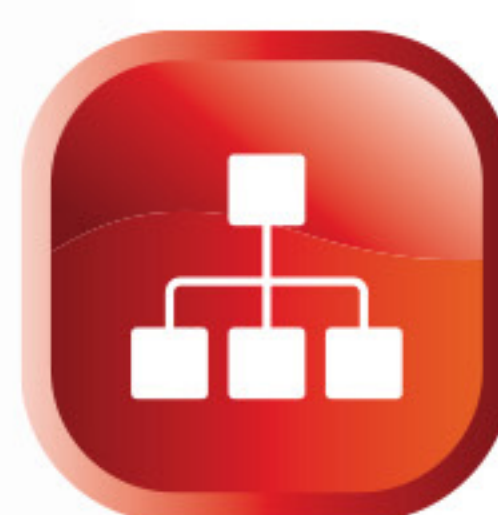
Range:6–20KVA

Type:High Frequency 1:1&3:1

Rated Voltage:220VAC

Rated Frequency:50/60Hz

Output PF:0.8



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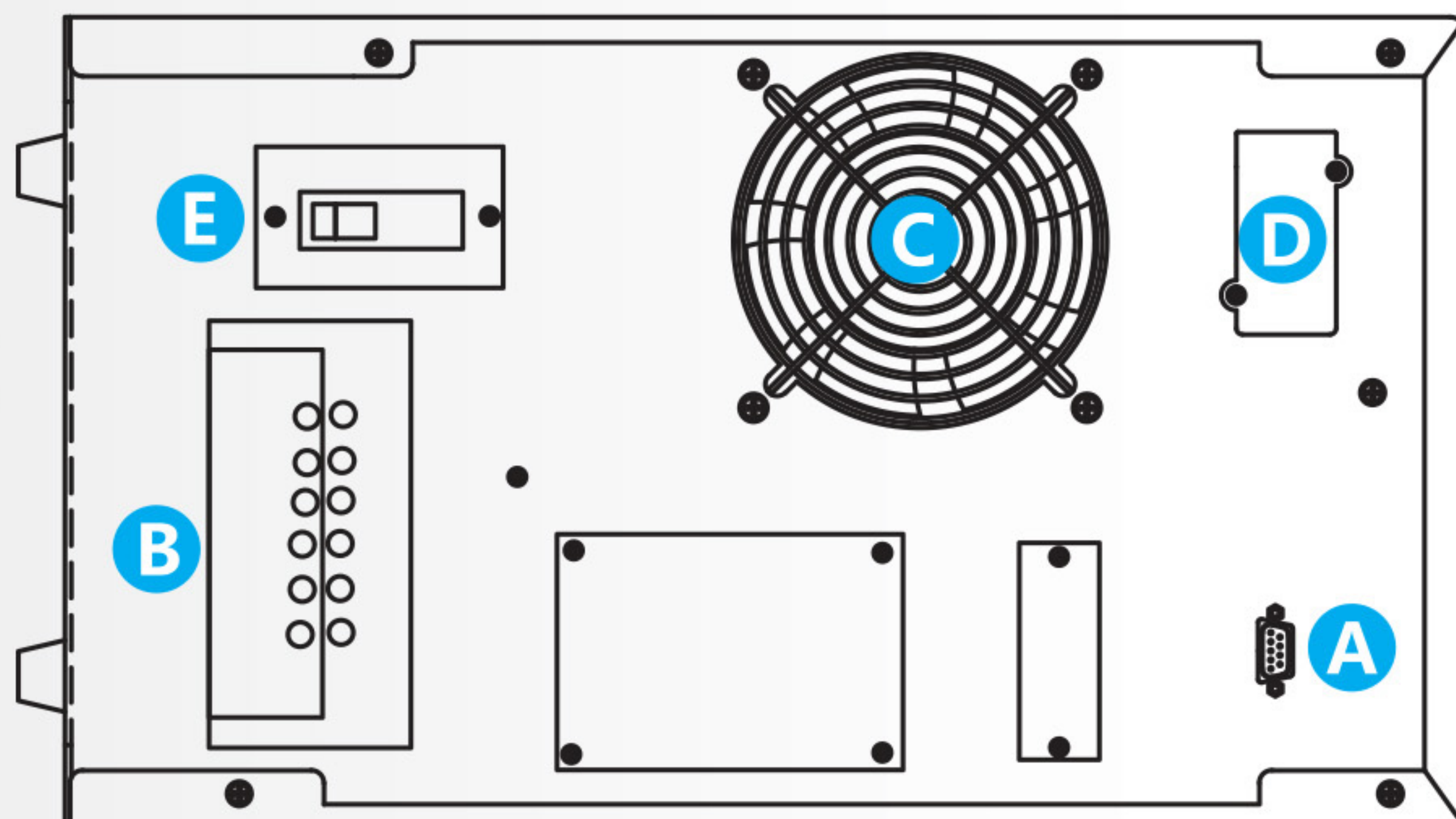
Data processing

## Key Feature

- Pure sine-wave output
- N+X parallel capacity
- Large LCD & LED display
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and ups fault
- RS232 & SNMP for optional, to provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- intelligent economical working mode
- MTBF is more than 200,000 hours, and MTTR is 20 minutes

## Rear Panel

W3W 6–20K



**A** RS232

**B** Input and Output Line Bank

**C** Fans

**D** Intelligent Slot

**E** Input Protection Switch



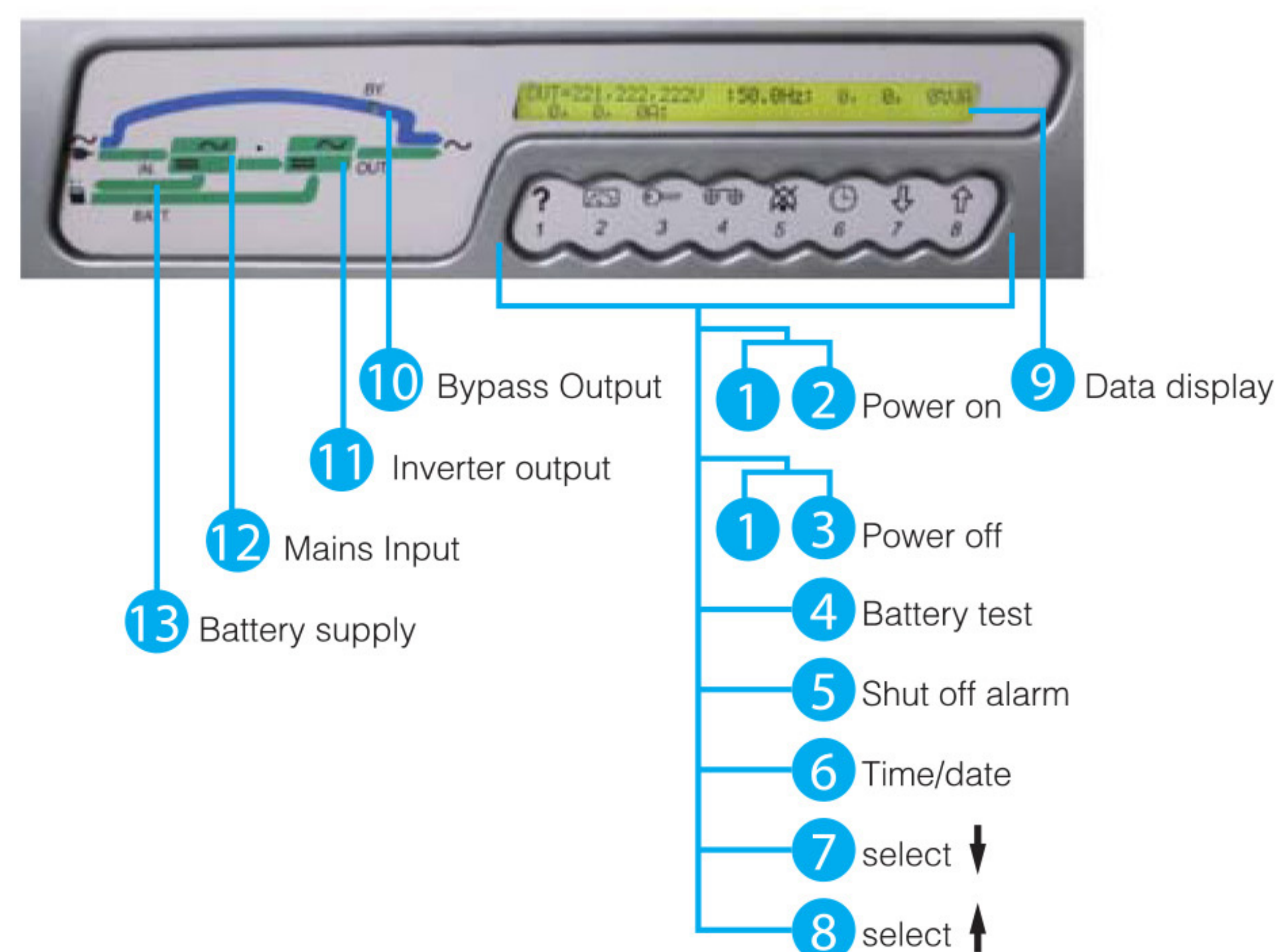
## Parameters

Model		W6KL(s)	W10KL(s)	3W10KL(s)	3W15K	3W20K
Capacity		6000VA	10000VA	10000VA	15000VA	20000VA
N + X Parallel ( up to 3 pcs )						
Input	Voltage	120VAC–275VAC			304VAC–475VAC	
	Frequency	45–55Hz ( 55–65Hz )				
	Input Power Factor	>98%			>95%	
Output	Voltage	220VAC ± 1%				
	Frequency	50 / 60Hz ± 0.2% ( battery mode )				
	Distortion THD	Non–linear Load THD < 5% ; Linear Load THD < 3%				
	Overload	105%–125% 1min, 125%–150% 30s , > 150% 0.5s				
	Crest Factor	> 3:1				
	Output Power Factor	0.8 LAG				
	Efficiency	>0.85		>0.9		
	Dynamic Response	Full Load ± 3%				
	Wave Form	Sine Wave				
Battery	Type	Valve Controlled Sealed Lead–acid Battery				
	DC Voltage	192VDC/240VDC				
	Quantity for Battery	12V / 7Ah × 16 ( pcs ) / 12V / 7Ah × 20 ( pcs )				
Transfer Time	AC Fault	0ms				
	UPS Fault	0ms				
Protection	Short Circuit	Shut Off Inverter and Bypass Output at The Same Time				
	Over Temperatruer	Transfer to Bypass Output Automaticly				
Display	LCD	Input Voltage、Output Voltage、Current、Frequency、Battery Voltage & Charging Current、Fault、Alarm				
	LED	UPS Status				
Alarm	Battery Low Voltage	Alarm Every Second				
	AC Fault	Alarm Every 4 Seconds				
	UPS Overload	Alarm Continuely				
	UPS Fault	Alarm Continuely				
Communication Interface		RS232 ( SNMP optional )				
Environ–ment	Temperature	0℃–40℃				
	Humidity	≤90%				
	Noise ( within 1 meter )	<50dB			<58dB	
Weight ( Net Weight )		18Kg+36/45Kg	20Kg+36/45Kg	27Kg+36/45Kg	35Kg	35Kg
Dimension W×D×H ( mm) for UPS		240*500*460(L ) /248*500*616 ( S )			248*500*616	

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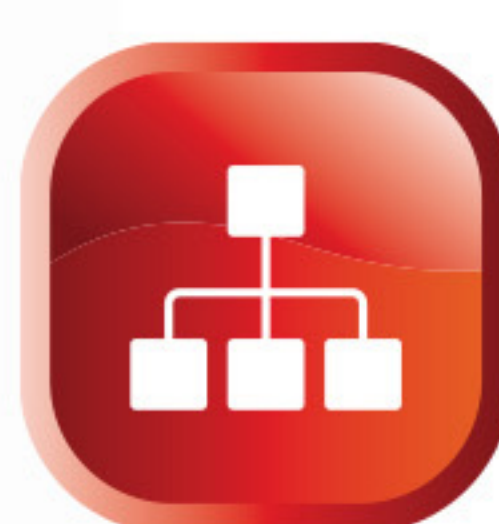


## Pictures



## Key Point

Range:10–50KVA  
Type:Low Frequency 3:1  
Rated Voltage:220VAC  
Rated Frequency:50/60Hz  
Output PF:0.8–1LAG



Network



Industrial



Medical



Data security



Data processing

## Key Feature

- Wide input voltage
- Friendly interface design of LCD
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and UPS fault

- RS232 & SNMP for optional, provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes



## Parameters

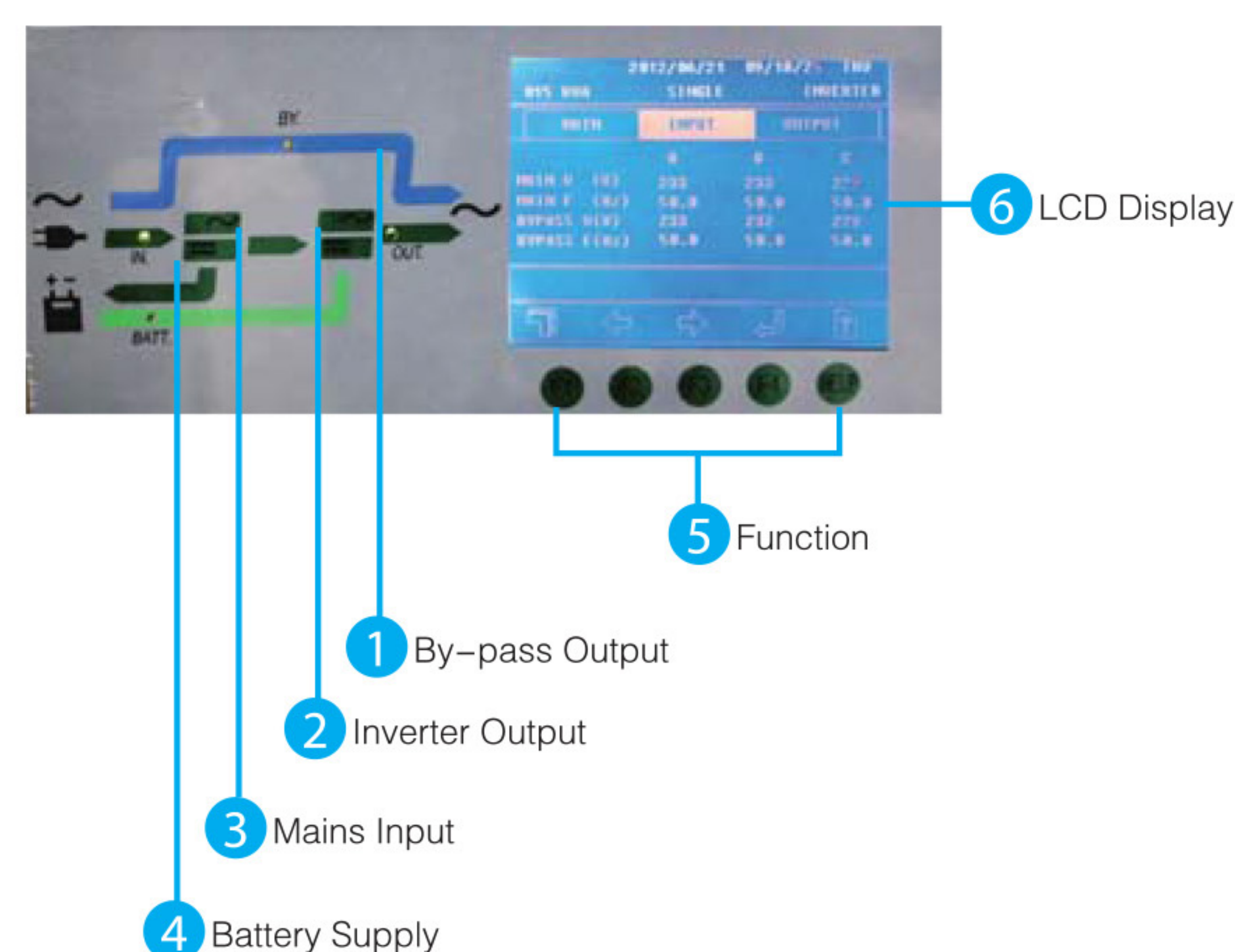
Model		3B10K	3B15K	3B20K	3B30K	3B40K	3B50K
Capacity		10KVA	15KVA	20KVA	30KVA	40KVA	50KVA
Input	Voltage	380VAC ± 20%(3 ϕ +4W )					
	Frequency	50Hz ± 10%/60Hz ± 10%					
Output	Voltage	220VAC ± 1%					
	Frequency	50Hz ± 0.05% / 60Hz ± 0.05% ( free running )					
	Dynamic Response	Full Load ± 4%					
	Wave Form	Sine Wave					
	Crest Factor	3:1					
	Efficiency	> 92%					
	Rated Output PF	0.8 – 1 LAG					
	Overload	Load < 125% after 5 Minutes Transfer to Bypass and Recover Automaticly Load < 125% – 150% after 30 Seconds Transfer to Bypass and Recover Automaticly					
	Distortion THD	Non Linear Load THD < 5% ; Linear Load THD < 3%					
Battery	Type	Valve Controlled Sealed Lead–acid Battery					
	DC Voltage	192/384VDC	384VDC				
	Battery Quantity	12V × 16/32pcs	12V × 32pcs				
Transfer Time	Bypass to Inverter	0ms					
	Inverter to Bypass	< 2ms					
Protection	Short Circuit	Shut Off Inverter and Bypass Output at The Same Time					
	Over Temperature	> 85℃ Transfer to Bypass Output Automaticly					
	EMI Filter	EN50091 – 2					
	Battery	Circuit Breaker					
Alarm	AC Fault	Alarm Every 4 Seconds					
	Battery Low Voltage	Continuely Alarm Every Second until UPS Shut Down, Battery LED Flash Every 2 Seconds					
	UPS Overload	Alarm Continuely					
	UPS Fault	Alarm Continuely					
Display	LCD	Input Voltage 、 Output Voltage 、 Current 、 Frequency 、 Battery Voltage 、 Load 、 UPS Status 、 Temperature					
	LED	Input / Bypass / Inverter / Battery / Overload / Fault					
Communication Interface		RS232 ; Dry Contact					
Environ –ment	Temperature	0℃–40℃					
	Humidity	< 95% ( no condensing )					
	Noise(at 1 meter)	<58dB					
Weight ( Net Weight )		180Kg	223Kg	239Kg	309Kg	355Kg	550Kg
Dimension W×D×H ( mm) for UPS		680 × 510 × 1130	740 × 560 × 1200				1040 × 560 × 1410

※Note: Supply Both Input & Output on 208/110VAC

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

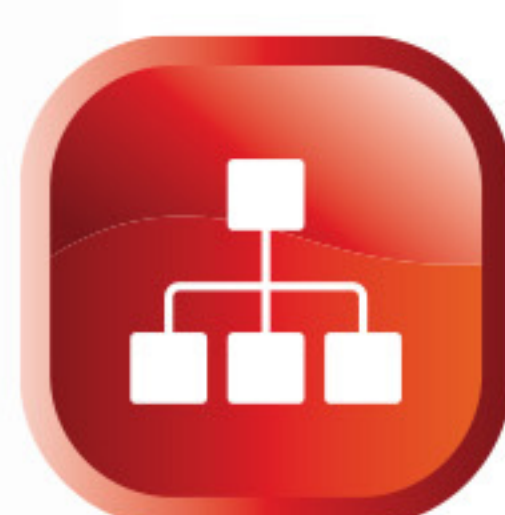


## Pictures



## Key Point

Range:10–80KVA  
Type:High Frequency 3:3  
Rated Voltage:380VAC  
Rated Frequency:50/60Hz  
Output PF:0.7/0.8(optional)



Network



Industrial



Medical



Data security



Data processing

## Key Feature

- Redundant and parallel function
- Wide input voltage range
- Friendly interface design of LCD
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and UPS fault
- RS232 & SNMP for optional, to provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes



## Parameters

Model	3W3-10K	3W3-15K	3W3-20K	3W3-30K	3W3-40K	3W3-60K	3W3-80K
Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA

Input	Voltage	380VAC $\pm$ 20% (3 $\phi$ +N)
	Frequency	45-65Hz
	Power Factor	>95%

Output	Voltage	380VAC $\pm$ 1% (3 $\phi$ +N)
	Range Setting	346 - 415VAC ( can be setted on the panel )
	Frequency	50Hz $\pm$ 0.05% / 60Hz $\pm$ 0.05% The Same of Input
	Dynamic Response	Full Load $\pm$ 4%
	Crest Factor	3 : 1 ( rectifier load )
	Efficiency	> 92%
	Power Factor	0.7 / 0.8 ( optional )
	Distortion THD	Non Linear Load THD < 5% ; Linear Load THD < 3%
Overload	< 110% after 5 Minutes Tranfer to Bypass and Recover Automaticly	
	110% - 125% after 30s Tranfer to Bypass and Recover Automaticly	
	125% - 150% after 3s Tranfer to Bypass and Recover Automaticly	
	Bypass Overload 200% for 1 Minute	

Battery	Type	Valve Controlled Sealed Lead-acid Battery					
	DC Voltage	192 $\pm$ 192VDC ( 288 $\pm$ 288VDC for optional )			288 $\pm$ 288VDC		

Transfer Time	AC Fault	0ms
	UPS Fault	< 2ms

Protection	Short Circuit	Shut Off Inverter and Bypass Output at The Same Time
	Over Temperature	Transfer to Bypass Output Automaticly
	Battery	Current Breaker

Display	LCD	Input Voltage、 Output Voltage、 Current、 Frequency、 Battery Voltage、 Load、 UPS Status、 Temperature
	LED	Input / Bypass / Inverter / Battery / Overload / Fault

Alarm	AC Fault	Alarm Every 2 Seconds , Stop after 90 Seconds
	Battery Low Voltage	Continuely Alarm Every Second until UPS Shut Down , Battery LED Flash Every 2 Seconds
	UPS Overload	Continuely Alarm
	UPS Fault	Continuely Alarm

Communication Interface	RS232
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Environ -ment	Temperature	0°C-40°C
	Humidity	< 95% ( no condensing )
	Noise ( at 1 meter )	<56dB

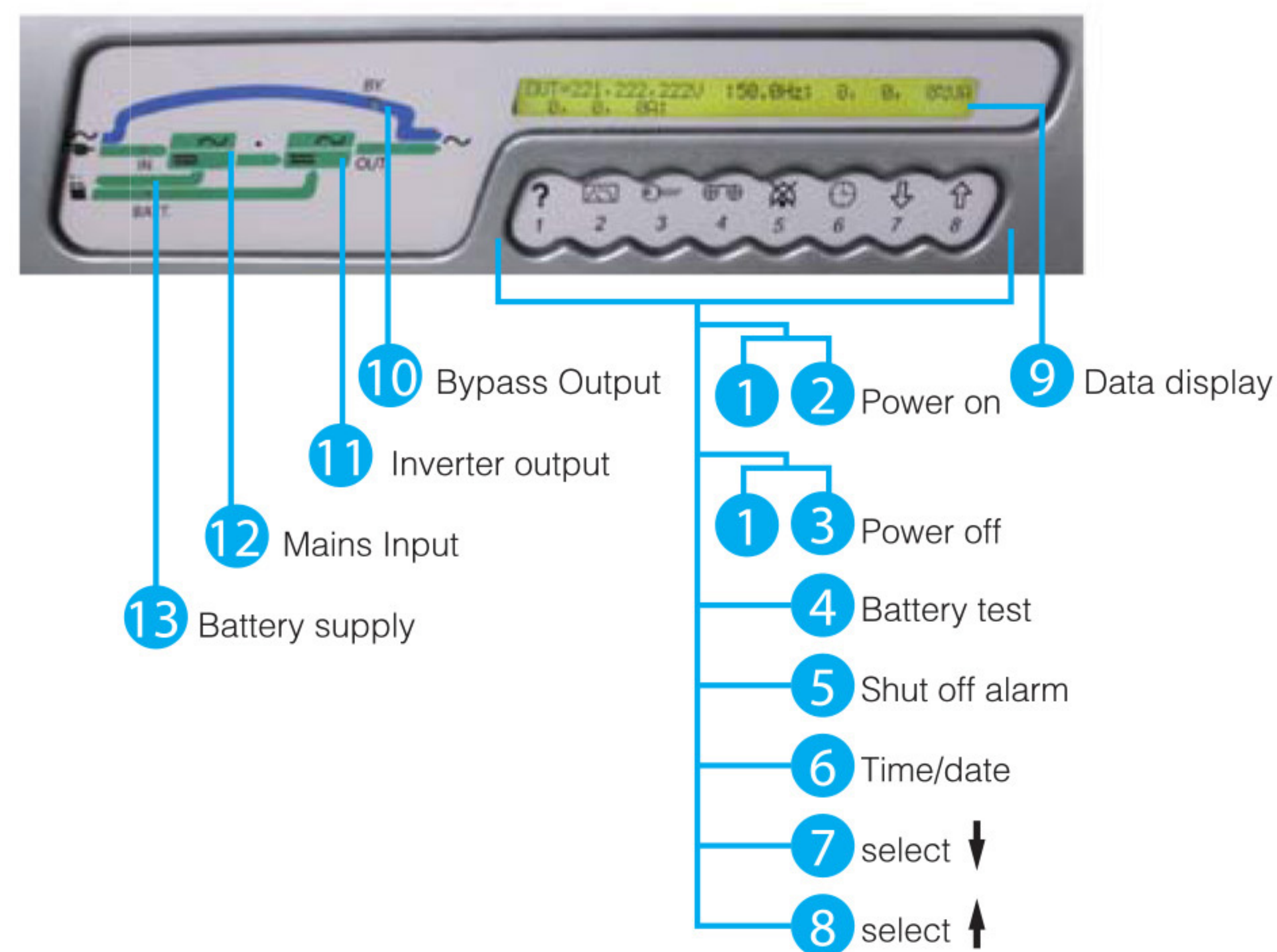
Weight ( Net Weight )	100/188Kg	105/193Kg	110/238Kg	120/248Kg	145/273Kg	282Kg	306Kg
Dimension W×D×H ( mm) for UPS	505 × 720 × 1140				505 × 825 × 1215	600 × 800 × 1800	

※Note : can supply both input & output on 208 ( 110 ) VAC

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

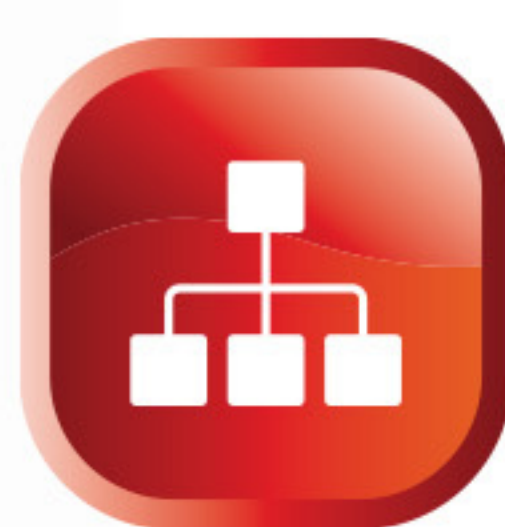


## Pictures



## Key Point

Range:10–200KVA  
 Type:Low Frequency 3:3  
 Rated Voltage:380VAC  
 Rated Frequency:50/60Hz  
 Output PF:0.8



Network



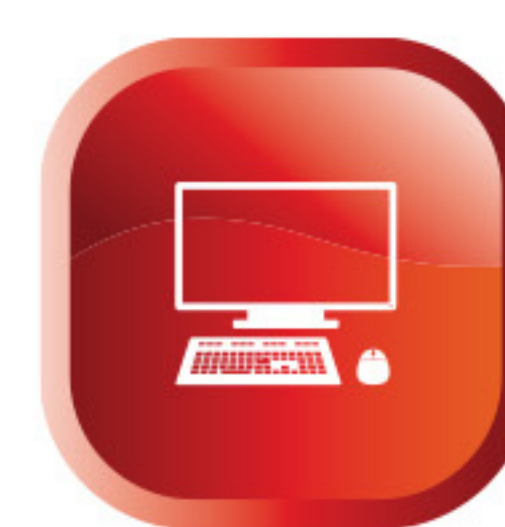
Industrial



Medical



Data security



Data processing

## Key Feature

- Redundancy and parallel function
- Wide input voltage
- Friendly interface design of LCD
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and UPS fault
- RS232 & SNMP for optional, provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes



Parameters

Model		3B3-10K	3B3-15K	3B3-20K	3B3-30K	3B3-40K	3B3-60K	3B3-80K	3B3-100K	3B3-120K	3B3-160K	3B3-200K
Capacity		10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA
Input	Voltage	380VAC ± 20%										
	Frequency	50Hz ± 5%/60Hz ± 5%										
Output	Voltage	220 – 244VAC ( can be set )										
	Frequency	50Hz ± 0.05% / 60Hz ± 0.05% ( free running )										
	Dynamic Response	Full Load ± 5%										
	Wave Form	Sine Wave										
	Crest Factor	3 : 1										
	Distortion THD	Non Linear Load THD < 5% ; Linear Load THD < 3%										
	Efficiency	> 90%	> 92%	> 93%								
	PF	0.8										
	Overload	Load < 110% after 5 Hours Transfer to Bypass and Recover Automaticly										
		Load 110% – 125% after 10 Minutes Transfer to Bypass and Recover Automaticly										
Load 125% – 150% after 1 Minute Transfer to Bypass and Recover Automaticly												
Battery	Type	Valve Controlled Sealed Lead-acid Battery										
	DC Voltage	384VDC							432VDC	480VDC		
	Quantity of Battery	12V × 32pcs							12V/7Ah × 36pcs	12V/7Ah × 40pcs		
Transfer Time	Bypass to Inverter	0ms										
	Inverter to Bypass	< 2ms										
Protection	Short Circuit	Shut Off Inverter and Bypass Output at The Same Time										
	Over Temperature	> 85℃ Transfer to Bypass Automaticly										
	EMI Filter	EN62040-2 A Class										
	Battery	Current Breaker										
Alarm	AC Fault	Alarm Continuely Every 4 Seconds										
	Battery Low Voltage	Continuely Alarm Every Second untill UPS Shut Down , Battery LED Flash Every 2 Seconds										
	UPS Overload	Alarm Continuely										
	UPS Fault	Alarm Continuely										
Display	LCD	Input Voltage、 Output Voltage、 Current、 Frequency、 Battery Voltage、 Load、 UPS Status、 Temperature										
	LED	Input / Bypass / Inverter / Battery / Overload / Fault										
Communication Interface		RS232 ; Dry Contact										
Environ-ment	Temperature	0℃-40℃										
	Humidity	< 95% ( no condensing )										
	Noise ( at 1 meter )	<52dB	<60dB	<62dB								
Weight ( Net Weight )		210Kg	220Kg	230Kg	282Kg	351Kg	497Kg	556Kg	900Kg	1020Kg	1220Kg	1550Kg
Dimension W×D×H ( mm) for UPS		555 × 825 × 1200					800 × 740 × 1400		1070 × 745 × 1400		1420 × 860 × 1600	

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



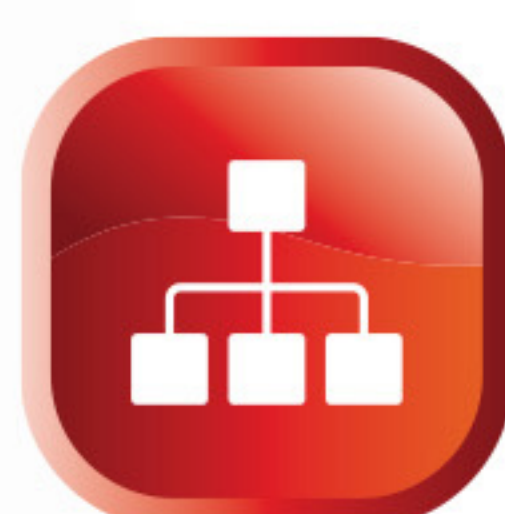
## Pictures



Operation Interface Show

## Key Point

Range:15–210KVA  
Type:Modular UPS 1:1/3:1/3:3  
Rated Voltage:380/220VAC  
Rated Frequency:50Hz  
Output PF:0.8



Network



Industrial



Medical



Data security



Data processing

## Key Feature

- Module structure, UPS capacity can be changed based on loads
- N+X redundancy
- Efficiency of UPS is more than 96%, environmental protection
- Friendly interface design of LCD
- Microprocessor control, self-check, battery check by itself
- Online static bypass, strong protection for overload and UPS fault
- RS232 & SNMP for optional, provide remote control management
- Intelligent temperature controlled fan, long life and low noise
- MTBF is more than 200,000 hours, and MTTR is 20 minutes



	General Data	
Input	Input	Three Phase Four Wire
	Input Voltage	380VAC ± 25%
	Input Frequency	50Hz ± 10%
	Slow Start	60 Seconds
	Input Total Harmonic Distortion THD	≤3%
Input Bypass	Input PF	≥0.999
	Input Voltage	380VAC ± 10%
	Input Frequency	50Hz ± 4%
Battery Voltage	Rated DC Voltage	± 384VAC
	Charging Voltage Stability	± 1%
DC Output	UPS PF	0.8
	Output Voltage	380/220VAC
	Output Frequency	50Hz ± 0.1Hz
	Output Voltage Stability	380/220VAC ± 1%
	Time for Output Voltage	20ms ( load from 0 – 100% )
	Overload	110% 60 Minutes 125% 15 Minutes 150% 60 Seconds 1000% 1 Second
	Transfer Time	0ms
	Crest Factor	≥3: 1
	Distortion THD	≤3%
	Efficiency	≥96%
Environment	Temperature	–5℃–40℃
	Elevation Allowed	≤ 1500 Meters
	Humidity	≤ 95% ( no condensing )
	IP Class	IP30
	Cooling	Air
	Safety Standard	EN60950
	Electromagnetic Compatibility Characteristics	EN50091–2CLASSB
	Noise	≤50dB
Integrated Power Distribution System	Circuit Breaker	Optional
	DC Isolation Switch Fuse	Optional
	Lighting Protection	Optional
	PDU Units	Optional
Others	Dimension for UPS	2000 × 800 × 600mm
	Communication	RS232、RS422、RS485、TCP/IP
	SNMP	Standard
	Structure	Module Parallel , Can Replace Online
	Display	LCD/LED
	Emergency Switch	Optional
Module Model	3RW210M15	3RW200M20
Module Capacity	15KVA	20KVA
DC Input	± 384VDC	
Input & Output	3 / 3 or 3 / 1	
Dimension for Module	19"(W), 2U(H), 520 mm (D)	19"(W), 3U(H), 520 mm (D)
Weight	17Kg	20Kg
Input PF	0.999	

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



## Pictures



## Characteristics

### ■ Mobilemate

This device gives warning and keep records of UPS working situation. The user can know working condition of the UPS through mobile phone very well. Also it can keep history events on UPS and have functions of starting, shutting down and discharge to UPS at a setting time, etc.

#### Function

- When the UPS working parameter changes, this device will send a message to the receiver immediately.
- It can receive short message from the mobile phone, and send the parameters to it by short message. By the way, UPS working condition can be reviewed on the website.
- Equipped with clock, when power cuts off, it can make sure accuracy of the time and record history events.
- It can review and download UPS history events by website.
- It can set UPS for operating at a fixed time through website.
- The user can set alarming elements.

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.





## ■ UPSilon2000

Data communication software UPSilon2000, including UPSilon for UNIX, can exchange the data and information by a connection line between UPS and RS232. It can make a perfect and intensive monitoring to UPS.

### Function

- The immediate response of the running parameter  
Via RS232 communication interface, you can view UPS' s running status, such as input and output voltage, load' s running situation, battery capacity, and nominal power frequency from computer' s display.
- Intelligent warning  
Where something is wrong with mains and UPS, a warning alert will be raised
- Intelligent turning on (off) UPS  
When power is abnormal, UPS can shut down automatically
- Save the document automatically when UPS shut down  
The dos dialog box under windows operation background, could be closed via user-defined key when shutting down systems
- Recording the information  
Record and analyze historical data; aggregate analysis of local power net; print the recorded data; broadcast and record the power supply information.
- Self-testing under diagnosing  
Setting a self-testing in a fixed time and the testing running period, until batteries has been exhausted.
- Set the time of shutting down UPS at night to save power
- Network Remote Monitoring

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

### Can Be Applied Software Systems:

Novell Netware v3.1, v4.x  
Microsoft Windows ME  
Microsoft Windows 98  
Microsoft Windows NT  
Microsoft Windows 2000  
Microsoft Windows XP  
Linux  
Free BSD

## ■ SNMP Network Management System

### Features

- This system includes the external SNMP Adapter, inside SNMP card and SNMP View management software. It has several characters such as wide adaptable scope on operating system, powerful supply management, English display, simple to handle, etc.
- Intelligent UPS has the network function with either an external SNMP Adapter or inside SNMP card. The network operator can monitor and operate UPS remotely via internet.
- SNMP Adapter or inside SNMP card send the message of UPS to the compatible message of SNMP MIB II and delivery it to the related network management workstation (NMS) by network. When the city power is abnormal, the network administrator can get the message and handle it. The adapter has the function of HTTP; the users can look after UPS on Internet by the normal browser such as Netscape Browser, Microsoft internet explorer.
- SNMP View is a kind of power management software for network operation platform. The UPS running status can be supervised remotely via screen.

### The software system can be applied by:

HP Open View  
SUN SunNet Manager  
Novell NMS  
IBM Netview  
Accton Accview  
Other SNMP Compliant  
NMS

### Function

- Display and record the working information of UPS
- Display UPS fault information
- Turning on (off) the UPS remotely
- Sending E-mail automatically

Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.



## Pictures



## Characteristic

### ■ High safety and reliability

Use safe automatic open and shut-down valve to avoid outside gas, fully sealed battery will not send out electrolyte or acid fog.

### ■ Free of maintenance

Use “gas recombination” technology does not need maintenance regularly.

### ■ Low possibility of discharging

Use high quality of composition of Pb-Ca multi-element, reduce possibility of discharging, when temperature is 20°C, battery can be used without charging for 6 months..

### ■ Long life of battery

When temperature is 20°C, Reros battery can be used for 3 years for float charging.

### ■ Strong adaptability

Can be used when the temperature is within -2 0°C ~ +5 0°C, desert and plateau climate, also special power of explosion-proof area.

### ■ Strong direction

Special AGM can strongly absorb electrolyte, it will not move, so the battery will be normally used no matter how the battery is laid.

### ■ Green, no pollution

Can be put together with electric instruments without any anticorrosive steps.

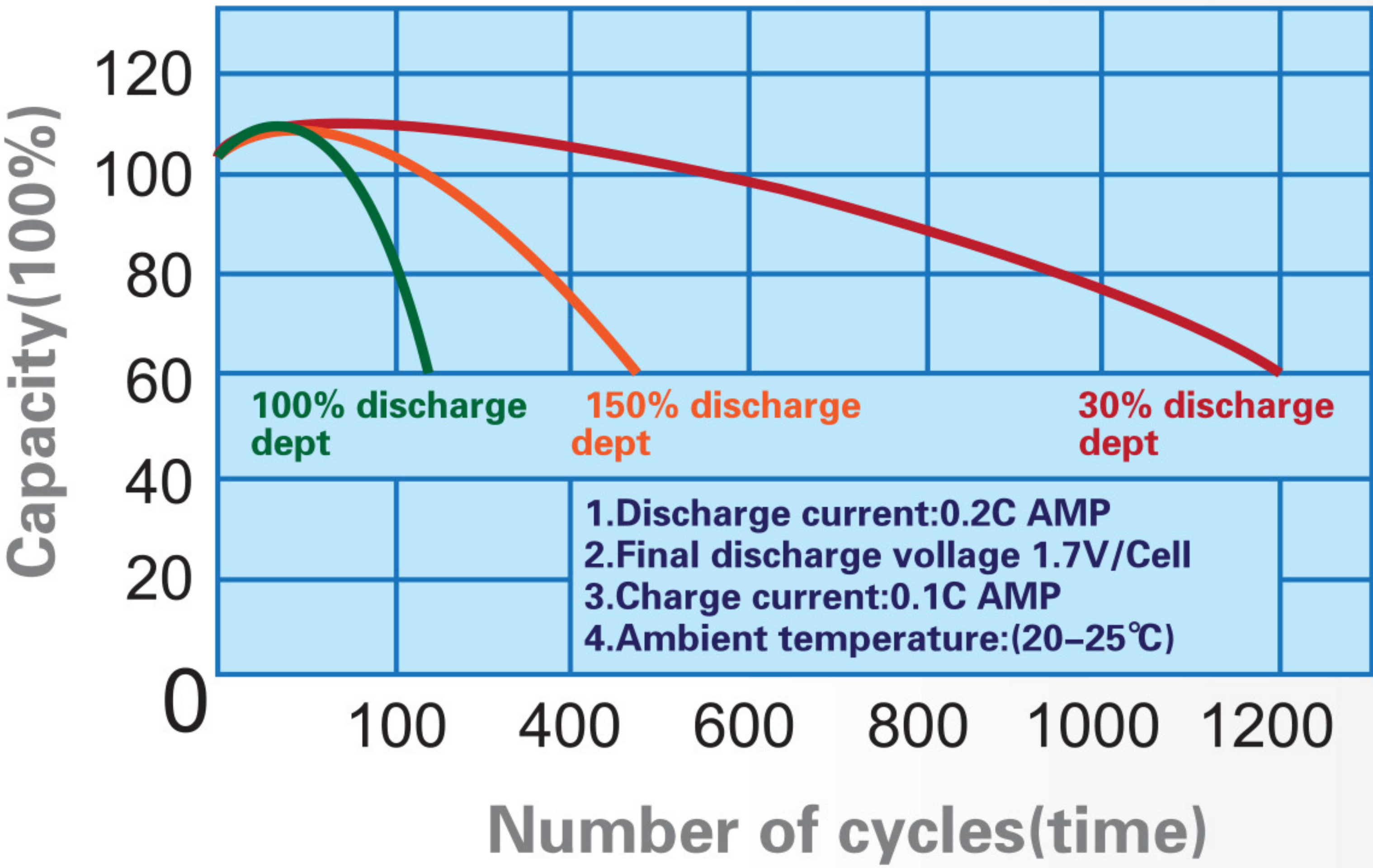


Parameters

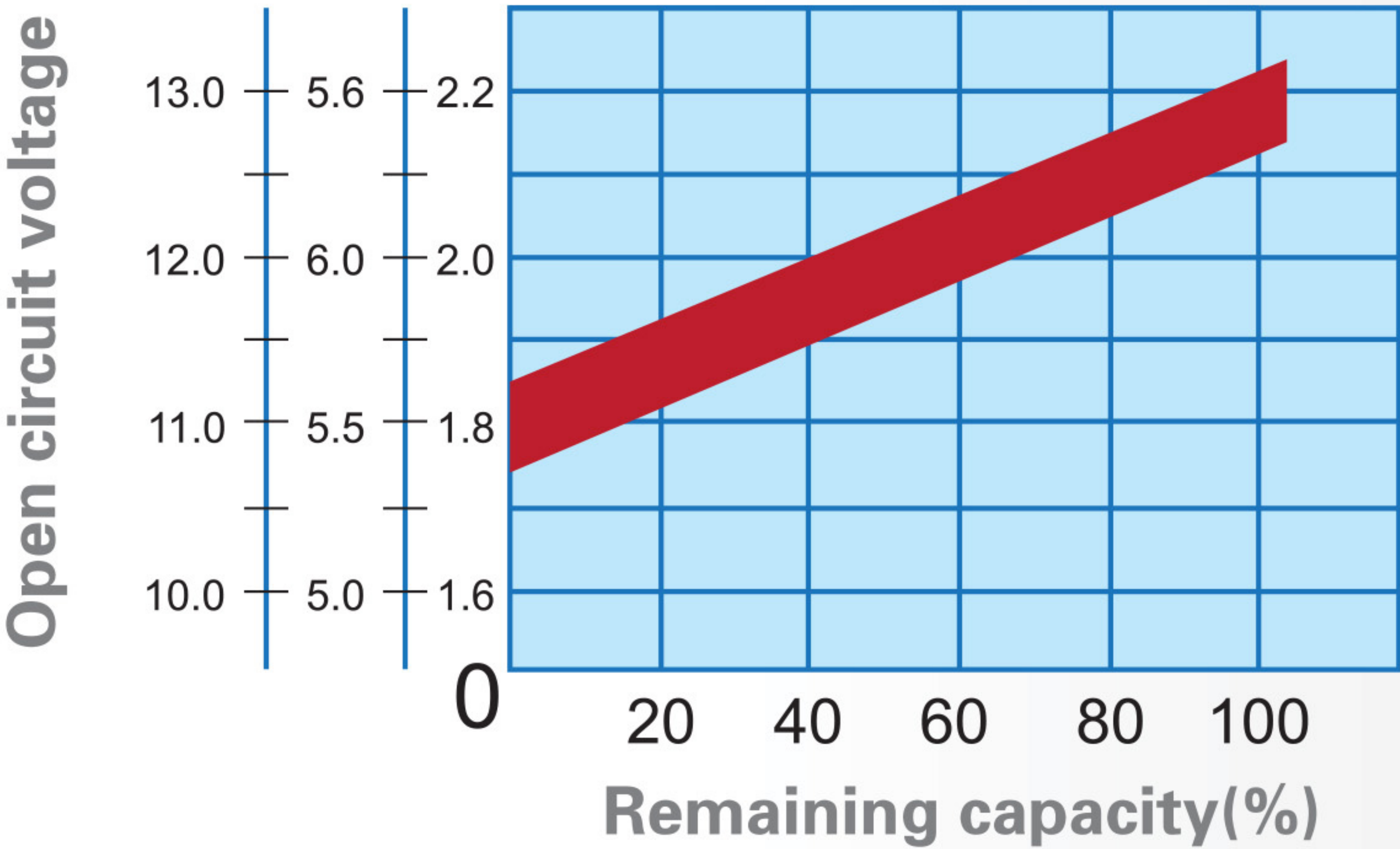
Model	Nominal Voltage (V)	Nominal Capacity (AH)	Dimension ( ± 2mm )				Weight	PCS/BOX	Package		
			L	W	H	Total			L	W	H
			mm	mm	mm	mm	Kg		cm	cm	cm
7-12	12	7	151	65	94.5	99	2.14	10	31.5	21	14.5
9-12	12	9	151	66	94.5	99	2.4.	10	31.5	21	14.5
10-12	12	10	151	98	95	99	3.5	4	32	31.55	15
12-12	12	12	151	98	95	99	4	4	32	31.55	15
17-12	12	17	181	76	166	167	5.3	4	32.5	19.5	22.5
20-12	12	20	181	77	167	167	5.7	4	32.5	19.5	22.5
38-12	12	38	197	165	177	177	11	2	36.5	20.5	23
65-12	12	65	348	166	178	178	19.36	1	34.5	18.5	22.5
75-12	12	75	260	169	208	227	21.2	1	28.4	18.5	27.6
90-12	12	90	307	169	208	227	28.5	1	33	18.5	27.6
100-12	12	100	328	172	214	243	29.5	1	37.5	21.5	28.2
120-12	12	120	406	174	208	233	34	1	42.5	20.5	28
150-12	12	150	483	170	241	241	42	1	50.5	18.5	32
200-12	12	200	522	240	219	244	57.6	1	54.2	26.2	30

Below table shows relation between circle of battery and discharging of battery when use “Shimastu” battery

Battery life in case of charging and discharging



Relation between open circuit voltage and remaining capacity





## Pictures



Network



Industrial



Medical



Data security



Data processing

## Key Feature

- Wide input voltage range 145–290VAC
- Automatic voltage regulation(AVR) function
- Intelligent startup in DC mode
- Automatic recharge

- LCD and LED display (optional)
- Protect surge、overload and short circuit
- Smart battery management
- Frequency automatic identification
- RS232 and RJ45/11 for option

## Parameters

Model	N-600LED	N-800LED/LCD	N-1200LED/LCD	N-1500LED/LCD
Input Voltage Range	145-290VAC			
Output Voltage Range	200-255VAC ± 5VAC			
Output Frequency	50/60 ± 0.5Hz (battery mode)			
Output Wave Form	PWM (battery mode)			
Transfer Time	≤10ms			
Backup Time	3-20 minutes (1PC with a 15 inch CRT)	20-40 minutes (1PC with a 15 inch CRT)	30-60 minutes (1PC with a 15 inch CRT)	40-80 minutes (1PC with a 15 inch CRT)
QTY & Capacity of Battery	12V7AH × 1PC	12V9AH × 1PC	12V7AH × 2PCS	12V9AH × 2PCS
Charging Period	10-16Hours			
RJ45/11 & USB	Optional			
Net Weight (Kg)	5.5	9.0	12.0	13.2
Unit Dimension (mm)	305 × 85 × 140	330 × 108 × 160	335 × 118 × 190	
Environment of Performance	Temperature 0-40℃ , Humidity 20%-90%			

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*ENGINEERING POWER*

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