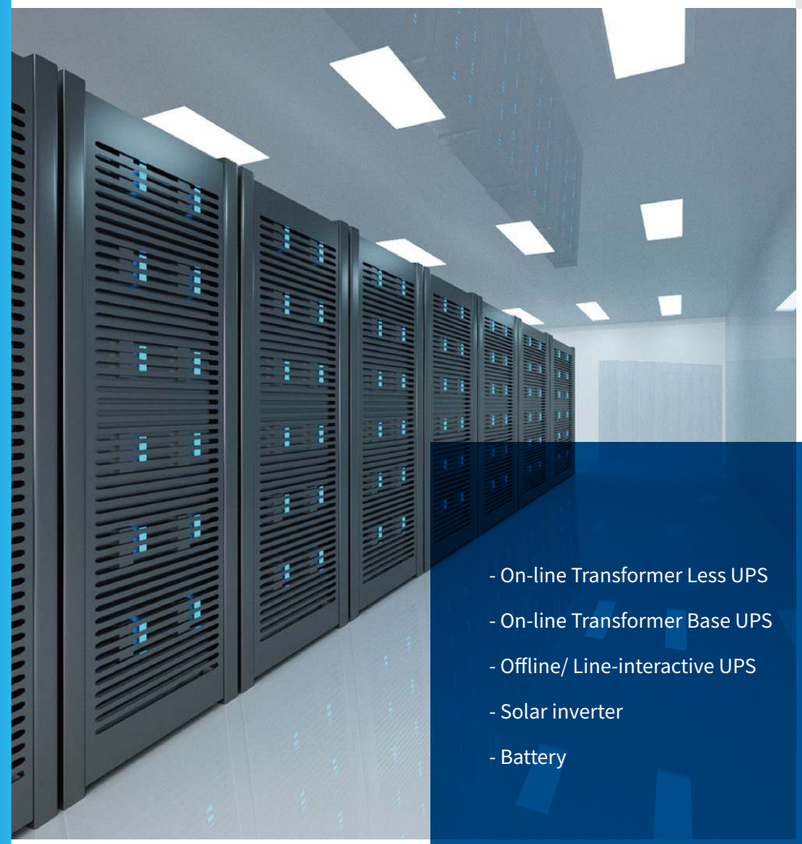
Reros®

Concentration Honesty
Reliability Perfection



- On-line Transformer Less UPS
- On-line Transformer Base UPS
- Offline/ Line-interactive UPS
- Solar inverter
- Battery

Reros (Changzhou) Electronics Co., Ltd
Http: //www.rerospower.net

Reros®

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COMPANY INTRODUCTION



Located in Changzhou National High-tech Development Zone of China, Reros (Changzhou) Electronics Co., Ltd. is committed to growing into a manufacturer and service provider in the field of global power supply. It is a joint-stock and high-tech enterprise, integrating design, production, sales and services. Currently Reros has two large production bases, four production plants, five domestic and foreign business departments, 3 R&D centers, more than 100 R&D engineers; sales offices and service centers in 30 provinces and cities in China. Moreover, it has established more than 80 global agency service outlets in Asian, African, Europe and America.

The company has been forging ahead with 20-year concentration! Reros has always been focusing on the R&D and manufacturing of UPS power supply. Reros boasts rich experience in the product design, manufacturing process, commissioning and inspection. Reros products have been widely used in important fields such as medical treatment, finance, communication, education, metallurgy, national defense, aviation, radio and television, transportation, government agencies. Providing high quality green and reliable power supply for more than 80 countries and regions around the world, Reros is devoted to becoming the leader of global leading power supply!

Always adhering to the service concept of “concentration, honesty, reliability and perfection”, Reros establishes a full-coverage strategic partnership with agents at all levels and provides customers with 24-hour intimate services through the pre-sales and after-sales service networks across the world. Reros devotes itself to helping companies make brilliant achievements!

Committed to independent research and development, Reros strives to create reliable, efficient and energy-saving products. As your most trusted partner, you will see Reros in every corner of the world in the future.

Reros®

Reros

with high quality products and comprehensive services
to ensure that the user key application system reliable operation
and faithful waiting for user investment value.

Reros UPS firmly persists in the tenet of excellent quality. Its products have passed the three international standard certifications of ISO9001, ISO14001, and OHSAS18001. Reros has won many honorary titles such as the "Member of China Power Society", "Member of China Association of Communication Enterprises", "Green and Innovative Enterprise " “The Most Satisfactory Brand", "China Integrity Demonstration Business Enterprise", "Green Environmental Protection Product", "Excellent Data Center Solutions Provider". Many advantageous products have been consecutively included in the "Chinese Central Government Procurement Network" and "Chinese National Tax Government Procurement Platform" and abtained "Energy Saving Product certification", "China TLC product certification", "National radio and television network access certification", "EU CE certification" With 20 product design patents and 90 utility model patents, Reros has won the respect and trust of all society sectors for its excellent products and services!



Exhibition Hall



Component Warehouse



UPS Production Workshop1



UPS Production Workshop2



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Reros®

W1-3KVA&G11/31 6-20KVA

Main feature

- Full digital control technology
- Output power factor up to 1.0
- LCD display panel
- RS232 communication port
- Intelligent SNMP+USB+EPO+dry contact (optional)
- High power density design
- AC/AC efficiency up to 95%
- ECO function

Application

- Data center
- Network device
- Commercial facility
- Precision instrument
- Home, Office and other AC power supply



Specification

Model	W1KS(L)	W2KS(L)	W3KS(L)	G116KS(L)	G11/3110KS(L)	G11/3115K	G11/3120K
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA	15kVA	20kVA
Input features							
Voltage(Vac)	120VAC～300VAC				120-300(1/1)/266-475(3 /1)		
Frequency(HZ)	45～66						
Phase	Single phase				Single phase/3φ4W+PE		
Power factor	Full load ⩾0.95				Full load ⩾0.98		
Battery voltage (Vdc)	24/36	48/72	72/96	192			
Battery type	2*9Ah 12V/External	4*9Ah 12V/External	6*9Ah 12V/External	16*9Ah 12V/External		External	
Output features							
Power factor	1.0						
Voltage(V)	220/230/240±1%						
Frequency(HZ)	50/60±0.05% (battery mode)						
Transfer time (ms)	0						
Efficiency	⩾92%			⩾93%			
Waveform	Sine Wave, Linear Load THD<3%;Non-linear Load THD<5%						
Overload	105%~129% full load keep 60s;130%~150% load keep 30s; Above 150% load keep 300ms			105%-125%,transfer to bypass after 10 mins; 125%-150%, transfer to bypass after 30secs;>150%,transfer to bypass after 0.5 second			
Crest factor	>3:1						
Output socket	EU/IEC/UK(optional)			Terminal block			
Others							
DC start	Yes						
Backup time	Normally 5-8 mins/Long time need to depend on demands						
Communication function	RS232(USB/dry contact are optional)						
SNMP (optional)	Can be network monitored by SNMP adapter						
Display	LED display UPS work status, LCD display UPS work parameters						
Noise (dB)	<50(within 1 meter)			<55(within 1 meter)			
Parallel function	No			Yes(optional)			
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection						
Protection	Input over-voltage protection, battery under-voltage protection, overload protection, short circuit protection, over temperature protection						
Working temperature (℃)	0～40						
Humidity	0～95%, Non condensing						
Size(D×W×H) (mm)	355×145×226	402×190×326		500×248×616(S &3/1)/500×240×460(L)		500×248×616	
Weight(KG)	7/12	8/19	8/24	19/62	64/21(1/1)30(3/1)	36	39

Note:
1、 “L” is long backup UPS， “S” is standard UPS；
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

W(1-10K)-E

Application

- CPU control technology
- Fan motor intelligent control, also can be used with a generator
- Automatically select 50Hz/60Hz input frequency mode
- Bypass voltage set by RS232 Serial port
- MTBE: ⩾200K hours, MTTR: 2min
- Manual maintenance bypass switch (optional)
- High performance battery optimized
- Double conversion pure on-line technology, super-width AC input voltage range
- Advanced display, set bypass voltage and output voltage range by the multi-function LCD panel
- ECO function



Specification

Model	W1KS/L-E	W2KS/L-E	W3KS/L-E	W6KS/L-E	W10KS/L-E
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA
Input features					
Voltage(Vac)	176~264				
Phase	Single phase				
Power factor	⩾0.99				
Output features					
Voltage (Vac)	220±1%				
Frequency (Hz)	50/60±0.05% (battery mode)				
Transfer time (ms)	0				
Power factor	1.0				
Battery voltage (Vdc)	36	72	96	192	
Waveform	Sine Wave, Linear Load THD≦2%;Non-linear Load THD≦5%				
Quantity of battery (Pcs) for 12V/9AH	2(24V)	4(48V)	6(72V)	16(192V)	
Efficiency (AC mode @ full loads)	⩾92%			⩾94%	
Overload	102%~110%(ambient temperature 0~30 degrees) after 10 minutes transfer to bypass; 110%~130%, 1 minute later; 130%~150%, 30 seconds later;> 150%, 0.2 seconds later				
Crest factor	3:1				
Others					
DC start	Yes				
Backup time	Normally 5-8 mins/Long time need to depend on demands				
Communication function	RS232/USB/dry contact				
Display	LED display UPS work status, LCD display UPS work parameters				
Noise (dB)	<50(within 1 meter)				
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection				
Protection	Input over-voltage protection, battery under-voltage protection, overload protection, short circuit protection, over temperature protection				
Working temperature (℃)	0～40				
Humidity	20%~90% (no condensation)				
Weight(KG)	10/4	17/6	22/6	49/8	50/9
Size(D×W×H) (mm)	280×145×226(S/L)	390×145×226(S/L)	402×190×326(S) 390×145×226(L)	455×190×640(S)/402×190×326(L)	

Note:
1. ‘L’ is long backup UPS, ‘S’ is standard UPS
2.Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

RW1-3K&RG11/316-20K

Main feature

- Full digital control technology
- Output power factor up to 1.0
- LCD display panel
- RS232 communication port
- Intelligent SNMP+USB+EPO+dry contact (optional)
- High power density design
- online double conversion
- External battery pack,rack kits(optional)
- ECO function

Application

- Data center
- Network device
- Commercial facility
- Precision instrument
- Rack device
- Telecom system





Specification

Model	RW1KS/L	RW2KS/L	RW3KS/L	RG116KS/L	RG11/3110KS/L	RG11/3115KL	RG11/3120KL
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA	15kVA	20kVA
Input features							
Input (Vac)	120～300				120～300(1/1)/266-475(3/1)		
Frequency(HZ)	45～66 Automatically select synchronization range according to grid frequency						
Phase	Single phase				Single phase /3φ4W+PE		
Power factor	Full load ⩾0.95				Full load ⩾0.98		
Battery voltage (Vdc)	24/36	48/72	72/96	192			
Battery type	2*9Ah 12V/External	4*9Ah 12V/External	6*9Ah 12V/External	16*9Ah 12V/External		External	
Output features							
Power factor	1.0						
Voltage(V)	220/230/240±1%						
Frequency(HZ)	50/60±0.05% (battery mode)						
Transfer time (ms)	0						
Efficiency (AC mode @ full loads)	⩾92%			⩾93%			
Waveform	Sine Wave, Linear Load THD<3%; Non-linear Load THD<5%						
Overload capacity	105%~129% full load keep 60s;130%~150% load keep 30s; Above 150% load keep 300ms			105%-125%,transfer to bypass after 10 mins; 125%-150%, transfer to bypass after 30secs;>150%,transfer to bypass after 0.5 second			
Crest factor	>3:1						
Others							
DC start	Yes						
Backup time	Long backup time, can be extended freely						
Charge recovery time	Determined by the extended battery capacity						
Communication function	RS232(USB/dry contact are optional)						
SNMP (optional)	Can be network monitored by SNMP adapter						
Display	LED display UPS work status, LCD display UPS work parameters						
Noise (dB)	<50(within 1 meter)			<55(within 1 meter)			
Parallel function	No			Yes(optional)			
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection						
Protection	Input over-voltage protection, battery under-voltage protection, overload protection, short circuit protection, over temperature protection						
Working temperature (℃)	0～40						
Humidity	0～95%, Non condensing						
Size(D×W×H) (mm)	375×440×88(2U)	612×440×88(2U)/375×440×88(2U)		612×440×130(3U)	1/1:612×440×130(3U)/ 3/1:700×440×130(3U)	660×440×260(6U)	
Weight(KG)	14/7	29 /9	33 /10	55 /19	57/21(1/1)/57/22(3/1)	32	38

Note:
1、“L” is long backup UPS, “S” is standard UPS;
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

W(1-3K)-E-LV

Main feature

- Output power factor up to 1.0
- LCD display panel
- RS232 communication port
- Intelligent SNMP+USB+EPO+dry contact (optional)
- High power density design
- ECO function

Application

- Data center
- Network device
- Computer equipment
- Communication systems
- Precision equipment





Specification

Model	W1KS/L-E-LV	W2KS/L-E-LV	W3KS/L-E-LV
Capacity	1kVA	2kVA	3kVA
Input features			
Voltage(Vac)	100/110/115/120/127VAC		
Voltage range	55~150VAC		
Power factor	0.99		
Phase	L+N+PE		
Frequency	50Hz/60Hz		
Frequency range	44~56Hz or 54Hz~66Hz		
Waveform	Linear Load <5%; Non-linear Load (PF=0.7) <6%		
Output features			
Voltage (Vac)	100/110/115/120/127VAC		
Voltage regulation	±1%		
Frequency range	Online Mode: Synchronized range;Battery Mode: 50/60Hz±1%		
Waveform	Linear Load <3%; Non-linear Load (PF=0.7) <5%		
Power factor	1.0		
Transfer time (ms)	AC Mode to Battery Mode 0ms, Inverter to Bypass 4ms (Typical)		
Overload capacity	102%~110% Load keep 60s; 110%~130% Load keep 10s; 130%~150% Load keep 3s; Above 150% load keep 300ms		
Crest factor	>3:1		
Efficiency (AC Mode & Full loads)	⩾93.5		
Battery			
Battery voltage (Vdc)	24/36	48/72	72/96
Quantity of battery (Pcs) for 12V/9AH	2/3	4/6	6/8
Charging Current (A)	S: 1A; L:1~12A can be adjusted		
Ambient temperature (℃)	0~40℃		
Others			
Backup time (mins)	4mins/depend on demands	4mins/depend on demands	3mins/depend on demands
Charging time (hrs)	8hrs up to 90%/ depend on battery capacity		
Humidity	20%~95%		
Temperature (℃)	-15℃~55℃		
Altitude	The altitude should not exceed 1000m, and the height above 1000mshould be reduced to a maximum of 4000m, refer to IEC62040		
Display	LED Display UPS work status. LCD Display UPS work parameters		
Communication function	RS232 Port, SNMP Port, EPO Port, USB Port		
Size (D×W×H) (mm)	144×390×220	190×400×330	
Net Weight (KG)	12/6.6	20/10	25/10

Note:
1、“L” is long backup UPS, “S” is standard UPS;
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

RW(1-3K)-E-LV

Main feature

- Output power factor up to 1.0
- LCD display panel
- RS232 communication port
- Intelligent SNMP+USB+EPO+dry contact (optional)
- High power density design
- ECO function

Application

- Data center
- Network device
- Computer equipment
- Communication systems
- Precision equipment



Specification

Model	RW1KS/L-E-LV	RW2KS/L-E-LV	RW3KS/L-E-LV
Capacity	1kVA	2kVA	3kVA
Input features			
Voltage(Vac)	100/110/115/120/127VAC		
Voltage range	55~150VAC		
Power factor	0.99		
Phase	L+N+PE		
Frequency	50Hz/60Hz		
Frequency range	44~56Hz or 54Hz~66Hz		
Waveform	Linear Load <5%; Non-linear Load (PF=0.7) <6%		
Output features			
Voltage (Vac)	100/110/115/120/127VAC		
Voltage regulation	±1%		
Frequency range	Online Mode: Synchronized range;Battery Mode: 50/60Hz±1%		
Waveform	Linear Load <3%; Non-linear Load (PF=0.7) <5%		
Power factor	1.0		
Transfer time (ms)	AC Mode to Battery Mode 0ms, Inverter to Bypass 4ms (Typical)		
Overload capacity	102%~110% Load keep 60s; 110%~130% Load keep 10s; 130%~150% Load keep 3s; Above 150% load keep 300ms		
Crest factor	>3:1		
Efficiency (AC Mode & Full loads)	⩾93.5		
Battery			
Battery voltage (Vdc)	24/36	48/72	72/96
Quantity of battery (Pcs) for 12V/9AH	2/3	4/6	6/8
Charging current (A)	S: 1A; L:1~12A can be adjusted		
Ambient temperature (°C)	0~40°C		
Others			
Backup time (mins)	4mins/depend on demands	4mins/depend on demands	3mins/depend on demands
Charging time (hrs)	8hrs up to 90%/ depend on battery capacity		
Humidity	20%~95%		
Temperature (°C)	-15°C~55°C		
Altitude	The altitude should not exceed 1000m, and the height above 1000mshould be reduced to a maximum of 4000m, refer to IEC62040		
Display	LED Display UPS work status. LCD Display UPS work parameters		
Communication function	RS232 Port, SNMP Port, EPO Port, USB Port		
Size (D×W×H) (mm)	482×388×88	482×613×88	
Net Weight (KG)	10/5	16/6	22/7

Note：
1、“L” is long backup UPS，“S” is standard UPS；
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

3W3 10-120kVA

Main feature

- Full DSP control technology
- Output power factor up to 0.9,IGBT
- rectifier
- Intelligent SNMP card (optional)
- RS232/RS485/dry contact communication port
- ECO function
- Maintenance switch
- DC cold start function
- Intelligent fan speed control

Application

- Data center
- IT room
- Commercial facility
- Precision instrument
- Telecom system
- Rack device



Specification

Model	3W3RX10KS/L	3W3IX20KL	3W3IX30KL	3W3IX40KL	3W3IX60KL	3W3IX80KL	3W3IX100KL	3W3IX120KL
Capacity	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
Input features								
Input voltage (Vac)	380 (-45%～+25%) , -45%～-20%							
Bypass voltage(V)	+15%(+20% optional)/-25%							
Frequency (HZ)	40—70Hz Automatically select synchronization range according to grid frequency							
Phase	3φ4W+PE							
Power factor	⩾0.99							
Battery voltage (Vdc)	192	±192						
Quantity of battery (Pcs)	16-20 can be adjusted	28-32 can be adjusted						
Battery type	20*9Ah12V/External	External						
Output features								
Power factor	0.9							
Voltage(V)	380/400/415±1%							
Frequency(HZ)	Mains normal, Same as input；Mains abnormal, 50±0.2%							
Transfer time (ms)	0							
Efficiency (AC mode @ full loads)	﹥90%	﹥93%			﹥95%			
N+X in parallel	3pcs	8pcs						
Waveform	Linear Load THD<3%；Non Linear Load THD<5%							
Overload capacity	125% full load keep 10 mins, 150% full load keep 60s							
Crest factor	>3:1							
Others								
Manual maintenance bypass	with no transfer time bypass maintenance switch							
Communication	RS232/RS485/dry contact(SNMP/USB are optional)							
Weight (KG)	32/96	82	110	114	140	162	200	220
Size (W×D×H)(mm)	250×592×829 250×592×576	440×675×935			500×800×1100		600×915×1400	

Note：
1、“L” is long backup UPS，“S” is standard UPS；
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

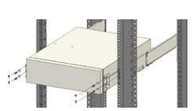
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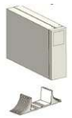




--- Rack-Mounted/Tower Design

Reros 3W3G series UPS is designed for rack-mounted and tower. Multiple installation modes. It is suitable for installation in a 19-inch standard rack cabinet, or standing at the tower foot.





--- Input/Output phase

4 input/output modes:3/3, 3/1, 1/3 or 1/1 for customers to choose according to needs.

--- Rear Panel

1.UPS input terminal block (PE/N/N/L1/L2/L3)
2.UPS bypass input terminal block(L1/L2/L3)
3.UPS output terminal block(PE/N/N/L1/L2/L3)
4.External battery terminal block(PE/+/N/N/-)





(Layout of terminal block)

--- LCD Touch Screen

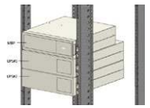
LCD screen rotation design to meet the requirements of different scenarios, support self-gravity induction, LCD interface can automatically adjust the direction of the display; With a 4 inch 16.5M color IPS capacitive touch screen.





--- Parallel Function

Output power factor is up to 1.0, it supports parallel expansion of up to 3 units UPS. In the parallel system, the installation of the UPS modular is the same as single UPS





--- Battery Charging

Three-stage charging design, optimize battery performance, charging current 1-13A can be set.

---Communication ports

The UPS provides USB , RS232 , EPO, Dry in& Dry out, RS485 port, Intelligent slot (Support hot swap).



--- Automatically restart

After the battery is exhausted, when the utility power is restored, the UPS will enter the bypass mode and charge the battery. When the user setting turns on the automatic restart function, and the battery reaches the set restart battery power, The UPS will automatically restart.

--- High efficiency

The efficiency is 96%, which greatly saves energy consumption and greatly reduces the operating cost of customers. Input power factor >0.99, input current harmonic <3%, improve power utilization, effectively avoid additional energy loss, eliminate pollution to the grid.

Specification

Model	3W3 G10K	3W3 G15K	3W3 G20K	3W3 G30K	3W3 G40K
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA
Input features					
Input voltage (Vac)	380±20%				
Frequency (HZ)	40-70HZ				
Phase	3 Phase 4 Wires+ Ground				
Power factor	⩾0.99				
Battery voltage (Vdc)	360-480VDC adjustable (default 384VDC)				
Battery quantity (PCS)	30-40 PCS adjustable (default 32PCS)				
Battery type	External				
Output features					
Power factor	1.0				
Output voltage (Vac)	L-N:220±1% L-L:380±1%				
Frequency (HZ)	50Hz/60Hz±0.2%				
Transfer time (ms)	0				
Efficiency(AC mode at full loads)	⩾96%				
N+X in parallel (PCS)	3				
Waveform	Linear Load THD<3%; Non-linear Load THD<5%				
Overload capacity	105-125%full load keep 10min to transfer bypass; 125-150%full load keep 30seconds to transfer bypass;				
Crest factor	>3:1				
Others					
Communication	RS232/RS485/USB /dry contact(SNMP are optional)				
Protection	Output short circuit protection, output overload protection, over temperature protection, battery low-voltage protection, output over under-voltage protection, fan fault protection, etc				
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection				
Communication port	Standard：RS232、RS485、Dry contact、USB；For optional：SNMP				
Display	4 inches touchable screen				
Working temperature	0～55°C				
Humidity	0%-95% (No condensing)				
Noise(dB)	＜65dB (Within 1 meter)				
Size(D×W×H) (mm)	700×400×133(3U)			900×440×133(3U)	
Weight(KG)	25	28	32	36	38

Note：
1、“L” is long backup UPS，“S” is standard UPS；
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

3W3G 6-20KVA-LV

Main feature

- Supports 3 /1, 3/3, 1/3, and 1/1 four output modes.
- The output power factor is up to 1.0 to meet the needs of users with higher loads.
- 20-26 batteries are adjustable, and users can choose more battery configurations.
- Charging current 1-13A flexible setup.
- Touch gravity sensor LCD screen, friendly interface, more convenient operation.
- Online double conversion mode efficiency up to 96%, battery mode efficiency up to 95%, more energy saving and environmental protection.

Main feature

- Server
- Storage
- Network equipment
- Precise instrument





Specification

Model	3W3G6K-LV	3W3G10K-LV	3W3G15K-LV	3W3G20K-LV
Capacity	6kVA/6kW	10kVA/10kW	15kVA/15kW	20kVA/20kW
Charging Current (A)	1~13A adjustable (default 3A)			
Frequency (HZ)	50/60Hz			
Power Factor	1.0			
Input Features				
Voltage Range (Vac)	55V~164VAC			
Voltage (Vac)	120VAC			
Current (A)	16.6A (3phase)	27.7A (3phase)	41.6A (3phase)	55.5A (3phase)
	50A (1phase)	83A (1phase)	125A (1phase)	166A (1phase)
Frequency (HZ)	40-70Hz			
Output Features				
Voltage (Vac)	110/115/120/127VAC			
Overload	105%-125%load, after 10 mins transfer to bypass;125%-150%load, after 30 secs transfer;over 150%load, after 0.5 secs transfer			
Transfer Time				
Mains<->Battery (ms)	0ms			
Inverter<->Bypass (ms)	0ms			
Battery				
Battery Voltage (Vdc)	2*120-2*156VDC can be adjustable (default 2*144VDC)			
Quantity of Battery (pcs)	2*10-2*13 pcs can be adjustable (default 2*12 pcs)			
Environment				
Working Temperature (°C)	0°C ~ 50°C(above 40°C will derate 50%)			
Humidity	0 ~ 95% (No Condensing)			
Altitude	<4000m (Above 1km will Derated use)			
Storage Temperature (with battery)	-15°C ~ 40°C			
Storage Temperature (without battery)	-25°C ~ 60°C			
Standard				
Safety	EN62040-1:2008+A1:2013			
EMC	EN 62040-2			
Others				
Size W×H×D(mm)	436*129*590	436*129*590	436*129*778	
Weight (kg)	23	25	34	

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

3RW Series Modular UPS



3RWG(90-270K)M30



3RWG(200-1200K)M50/M75

---Modular Design

3RW Series is the rack modular design, Seamlessly integrated with the latest data center designs, It is a true modular system, consists of dedicated redundant modules -- power supply, smart module, battery, and bypass.



---High efficiency

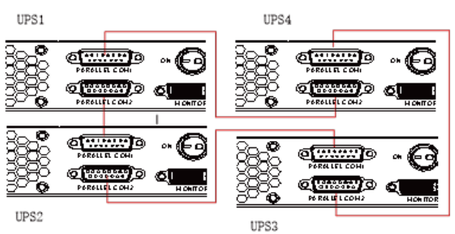
3RW modular UPS is high efficiency, when at AC mode full loads, it is ⩾94%. And the output power factor is up to 1.0.

---Hot Swap for power modular and battery

The number of battery cells can be configured flexibly, so the original batteries can be used when modifying the legacy system; moreover, Power modular can be replaced in time when it fails without interrupting the normal operation of UPS.

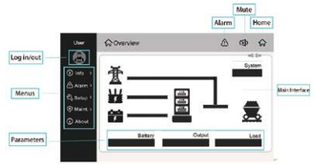
---N+1 or N+X parallel redundancy for power guarantee

Scalable architecture allows you to optimize cost expense to meet power demands by vertically expanding in a single rack enclosure from 60KVA to 900KVA and achieve N+1 or N+X redundancy in the same rack.



---LCD Display

The intuitive design of 7 inches LCD touchable display enhances the readability of identified and advanced configuration.



---Adjustable Charging Current and battery voltage

3RW modular UPS provide maximum 5A charging current per modular and battery voltage can be set from 32pcs to 44pcs per string. They are user-adjustable based on requirement.

---Communication ports

UPS supports RS485, RS232 communication and network port (LAN) communication, simple network monitoring (SNMP) protocol communication, Mod-bus protocol communication, YD/T 1363.3-2005 protocol communication and dry contact communication.



---Friendly-environment

Input power factor ⩾0.99, input current harmonic <5%, improve power utilization, effectively avoid additional energy loss, eliminate pollution to the grid, reduce energy consumption costs.

---Input &output phase

3RW series modular UPS can be configured to 3/3, 3/1,1/1

3RWG 90-270K

3RW Power Modular Technical Specification

Module Model	GM30
Module Capacity	30kVA
Input/Output Way	Three phase in three phase out
Module Dimension (W×D×H) mm	440×590×130
Weight (kg)	32 kg
Input PF	⩾0.99
Input Total Harmonic Distortion THDI (%)	⩽3%

3RW System Technical Specification

Model	3RWG90KM30	3RWG150KM30	3RWG180KM30	3RWG240KM30	3RWG270KM30
Capacity	90kVA	150kVA	180kVA	240kVA	270kVA
Type of power module	GM30				
Input mode	3 Phase 4 Wires+ Ground				
Input voltage(Vac)	380V/220V±20%、400V/230V±20%、415V/240V±20%				
Input frequency(HZ)	50Hz±10%、60Hz±10%				
Input power factor	⩾0.99				
Battery voltage(Vdc)	±240				
Charge time	10hs (2hs backup battery capacity)				
Battery quantity(Pcs)	32-44 can be adjusted				
UPS Power factor	1.0				
Output voltage(Vac)	380/220V、400/230V、415/240V				
Output frequency(HZ)	50Hz±4%；Mains overrun or battery mode output is 50Hz±0.2% 60Hz±4%；Mains overrun or battery mode output is 60Hz±0.2%				
Output voltage Stability	±1%（Static）；±2%（Load change from 0 ~ 100%）				
Efficiency (AC mode @ full loads)	⩾94%				
Output voltage recovery time	＜20ms (Load change from 0 - 100%)				
Overload	Rated load 125%，runs 10mins				
Communication function	RS232/RS485/422/ dry contact/TCP/IP Expansion cards				
SMMP(optional)	Can be network monitored by SNMP adapter				
Parallel function	Yes(for optional)				
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection				
Working Environment Temperature	-5℃～40℃				
IP Class	IP31				
Cooling	Speed controlled air cooling				
Noise(dB)	⩽55dB(Within 1 meter)				
Structure	19 inches Standard				
Monitor Management System	UP Supervisor				
Display	Touchable screen LCD/LED				
Size (W×D×H) mm	600×800×1200	600×800×1600	600×800×1600	600×800×2000	600×800×2000
Weight (KG)	120	140	160	200	250

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

3RW 200-1200K

3RW Power Modular Technical Specification

Module Model	M50	M75
Module Capacity	50kVA	75kVA
Input/Output Way	Three phase in three phase out、three phase in single phase out、single phase in three phase out、single phase in single phase out	
Input PF	⩾0.99	
Input Total Harmonic Distortion THDI (%)	⩽3%	
Module Dimension (W*D*H) mm	482×700×176	682×700×176
Weight (kg)	40	50

3RW System Technical Specification

Model	3RW200KM50	3RW300KM50	3RW400KM50	3RW500KM50	3RW600KM50	3RW450KM75	3RW600KM75	3RW900KM75	3RW1200KM75
Capacity	200kVA	300kVA	400kVA	500kVA	600kVA	450kVA	600kVA	900kVA	1200kVA
Type of power module	M50					M75			
Input mode	3Ph+N+PE								
Input voltage(Vac)	380V/220V±20%、400V/230V±20%、415V/240V±20%								
Input Frequency(HZ)	50Hz±10%、60Hz±10%								
Input power factor	⩾0.99								
Battery voltage(Vdc)	±240								
Charge time	10hs (2hs backup battery capacity)								
Battery quantity(Pcs)	32-44 can be adjusted								
UPS Power factor	1.0								
Output voltage(Vac)	380/220V、400/230V、415/240V								
Output frequency(HZ)	50Hz±4%；Mains overrun or battery mode output is 50Hz±0.2% 60Hz±4%；Mains overrun or battery mode output is 60Hz±0.2%								
Output voltage Stability	±1% (Static) ；±2% (Load change from 0 ~ 100%)								
Efficiency (AC mode @ full loads)	⩾94%								
Output voltage recovery time	＜20ms (Load change from 0 - 100%)								
Overload	Rated Load 125% , runs 10mins								
Communication function	RS232/RS485/422/ dry contact/TCP/IP Expansion cards								
SMMP(optional)	Can be network monitored by SNMP adapter								
Parallel function	Yes(for optional)								
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection								
Working Environment Temperature	-5°C～40°C								
IP Class	IP31								
Cooling	Speed controlled air cooling								
Noise(dB)	⩽55dB(Within 1 meter)								
Structure	19 inches Standard								
Monitor Management System	UP Supervisor								
Display	Touchable screen LCD/LED								
Size (W×D×H) mm	600×1000×2000	800×850×2000 900×1000×2000	900×1000×2000	1400×850×2000 1200×1000×2200	1200×1000×2000	900×1000×2000	1200×1000×2000	1800×1000×2000	2000×1000×2200
Weight (KG)	200	250	320	400	500	400	540	600	700

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

B1-20kVA

Main feature

- IGBT inverter and output isolation transformer
- Online double conversion
- Wide input voltage range
- RS232 communication port
- SNMP +USB+dry contact(optional)
- High reliability and performance
- External battery pack (optional)

Application

- Data center
- Industry
- Commercial facility
- Telecom system
- Precision instrument



Specification

Model	B1KS/L	B2KS/L	B3KS/L	B6KS/L	B10KS/L	B15K	B20K
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA	15kVA	20kVA
Input features							
Input voltage (Vac)	165～275						
Frequency(HZ)	45～66 Automatically select synchronization range according to grid frequency						
Phase	Single phase three wires						
Battery voltage (Vdc)	48	96	96/192	192			
Battery type	4*9Ah 12V/External	8*9Ah 12V/External	8/16*9Ah 12V/External	16*9Ah 12V/External		External	
Output features							
Power factor	0.8/0.9						
Voltage(V)	220/230/240±1%						
Frequency(HZ)	50/60±0.05% (battery mode)						
Transfer time (ms)	0						
Waveform	Sine Wave, THD<3%						
Overload capacity	110%~129% full load keep 10min；130%~150% load keep 60s；						
Others							
Crest factor	>3:1						
Backup time	Standard time is 5-8mins/ Long backup time can be extended freely						
Charge recovery time	<10hours						
Communication function	RS232(USB/dry contact are optional)						
SNMP (optional)	Can be network monitored by SNMP adapter						
Display	LED display work status and fault indicator；LCD display single phase input voltage, input frequency, single phase output voltage, load, battery voltage etc						
Noise (dB)	<60(within 1 meter)						
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection						
Protection	Input over-voltage protection, battery under voltage protection, overload protection, short circuit protection, over temperature protection						
Working temperature (℃)	0～40						
Humidity	0～95%, Non condensing						
Size(D×W×H) (mm)	590×230×717(S)/590×230×540(L)				596×305×1065/890		700×405×955
Weight(KG)	80/50	99/60	107/52	115/60	160/116	127	195

Note：
1、“L” is long backup UPS，“S” is standard UPS；
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

RB1-10K &B(1-20K)- II

Main feature

Reros RB1-10K &B1-3B20K- II are built on the traditional power frequency uninterrupted power supply concept of sublimation, using IGBT module and output isolation transformer, so that the output of UPS for frequency and voltage stability, filter noise, low distortion, not by the grid fluctuation interference of pure sine wave UPS power supply. The series of products are compact in size, convenient for customers to handle, use, has been widely used in metallurgy, chemical industry, building materials, glass manufacturing, electronics, automobile manufacturing and other fields.

Main feature

- Low frequency intelligent, 1/1, 3/1.
- Concentrated control panel and friendly interface design
- Abundant computer and remote monitoring function
- Cold start function
- N + X parallel redundancy
- Perfect protection function
- High performance dynamic and superior load characteristics



Specification

Model	RB1KL(S)	RB2KL(S)	RB3KL(S)	RB6KL(S)	RB10KL(S)
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA
Input features					
Voltage(Vac)	220VAC±25%				
Frequency	45～66 (Automatic detection and adaptation of 50/60Hz frequency system)				
Power factor	⩾0.95%			⩾0.99%	
Output features					
Voltage (Vac)	220VAC±1%				
Frequency (Hz)	50HZ±0.5%/60HZ±0.5%(free oscillation)				
Distortion factor	THD<3% (Linear Load) , THD<5% (Non-linear Load)				
Dynamic response	Full Load±4%				
Waveform	Sine Wave				
Crest factor	3:1				
Power factor	0.8				
Efficiency	⩾92%				⩾94%
Battery					
Battery voltage	36V	72V	96V	192V (16pcs~20pcs, can be adjusted)	
Battery type	12V9AH ×2pcs (Internal)	12V9AH ×4pcs	12V9AH ×6pcs	12V9AH ×16pcs	
Transfer Time					
AC fault	0ms				
Alarm					
AC fault	The alarm sound will stop automatically after 90 seconds every 2 seconds				
Battery low voltage	Every 1 second continuous sound, until shutdown, battery LED lights flashing 1s once				
UPS Overload	The buzzer went on				
Protection					
Overload	110% to 129% switch to bypass after 10 minutes at full load; 130% to 150% switch to bypass after 60 seconds at full load and automatically restore inverter output				
Display	20%~90% (no condensation)				
LED	The state indicated by the LED light, AC Input/Bypass/Inverter/Battery/Overload/Fault				
LCD	Input voltage/Output voltage/Battery voltage/Frequency/load percent/UPS work status				
Others					
Temperature(℃)	0℃—40℃				
Humidity	0%—95% (No condensing)				
Noise(dB)	<58dB (within 1 meter)				
Weight(KG)	20/29	26/48	30/50	60/96	63/99
Size (W×D×H) mm	440×600×135(3U)			440×700×265(6U)	

Specification

Model	B1KL(S)-II	B2KL(S)-II	B3KL(S)-II	B/3B6KL(S)-II	B/3B10KL(S)-II	B/3B15K-II	B/3B20K-II
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA	15kVA	20kVA
Input features							
Voltage(Vac)	220VAC±25%			220/380VAC±25%			
Frequency	45～66 (Automatic detection and adaptation of 50/60Hz frequency system)						
Power factor	⩾0.95%			⩾0.99%			
Output features							
Voltage (Vac)	220VAC±1%						
Frequency (Hz)	50HZ±0.5%/60HZ±0.5%(free oscillation)						
Distortion factor	THD<3% (Linear Load) , THD<5% (Non-linear Load)						
Dynamic response	Full Load±4%						
Waveform	Sine Wave						
Crest factor	3:1						
Power factor	0.8						
Efficiency	⩾90%			⩾92%			
Battery							
Battery voltage	36V	72V	96V	192V			
Battery type	12V9AH ×2pcs	12V9AH ×4pcs	12V9AH ×6pcs	12V9AH ×16pcs		External	
Transfer Time							
AC fault	0ms						
Alarm							
AC fault	The alarm sound will stop automatically after 90 seconds every 2 seconds						
Battery low voltage	Every 1 second continuous sound, until shutdown, battery LED lights flashing 1s once						
UPS Overload	The buzzer went on						
Protection							
Overload	110% to 129% switch to bypass after 10 minutes at full load; 130% to 150% switch to bypass after 60 seconds at full load and automatically restore inverter output						
Display							
LED	The state indicated by the LED light, AC Input/Bypass/Inverter/Battery/Overload/Fault						
LCD	Input voltage/Output voltage/Battery voltage/Frequency/load percent/UPS work status						
Others							
Temperature(℃)	0℃—40℃						
Humidity	0%—95% (No condensing)						
Noise(dB)	<58dB (within 1 meter)						
Weight(KG)	17/22	24/40	28/41	60/105	65/110	95	105
Size (W×D×H) mm	368×145×349	498×190×390		786×240×503(L) 786×425×503(S)		955×248×502	

Note:
1、“L” is long backup UPS, “S” is standard UPS;
2、Because the products are continuously improved, please contact the company or dealer to inquiry the latest specification.

3B 6-50kVA

Main feature

- IGBT inverter and output isolation transformer
- Online double conversion
- Wide input voltage range
  RS232/RS485 communication port
- SNMP adapter/dry contact(optional)
- High reliability and performance
- External battery pack (optional)
- Maintenance switch

Application

- Data center
- Industry
- Commercial facility
- Telecom system
- Medical/bank system
- Precision instrument



Specification

Model	3B6K	3B10K	3B15K	3B20K	3B30K	3B40K	3B 50K
Capacity	6kVA	10kVA	15kVA	20kVA	30kVA	40kVA	50kVA
Input features							
Voltage(Vac)	380±25%						
Frequency(HZ)	45～66 Automatically select synchronization range according to grid frequency						
Phase	3Φ4W+PE						
Battery voltage (Vdc)	192		192/384			384	
Output features							
Power factor	0.8/0.9						
Voltage(V)	220/230/240±1%，Isolation transformer output						
Frequency(HZ)	50/60±0.5%(Free oscillation)						
Transfer time (ms)	0						
Waveform	Sine Wave，THD<3%						
Overload	125% load keep 10min，150% load keep 60s						
Crest factor	>3:1						
Others							
Output ways	Terminal Block						
Parallel function	Yes(for optional)				No		
Manual maintenance bypass	with no transfer time bypass maintenance switch						
Backup time	Battery supply life can be configured freely						
Battery management	Automatic timing/floating conversion, has battery self-testing function, automatic alarm and judge when battery abnormal						
Efficiency(AC mode @ full loads)	⩾90%						
Communication function	RS232 / RS485 interface, support for power monitor software						
SNMP (optional)	Can be network monitored by SNMP adapter						
Noise (dB)	<60(within 1 meter)						
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection						
Protection	Input over-voltage protection, battery under-voltage protection, overload protection, short circuit protection, over temperature protection						
Working Temperature (℃)	0～40						
Humidity	0～95%，No Condensing						
Size(D×W×H) (mm)	590×230×717	596×305×1065	596×305×1065(192VDC) 740×560×1200(384VDC)	700×405×955(192VDC)/740×560×1200(384VDC)			1040×560×1410
Weight(KG)	80	160	180/200	220	300/280	340	520

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

3B3 G 10-200K

Main feature

- IGBT inverter and output isolation transformer
- Online double conversion
- Wide input voltage range
  RS232/RS485 communication port
- SNMP adapter/dry contact(optional)
- High reliability and performance
- External battery pack (optional)
- Maintenance switch

Application

- Data center
- Industry
- Commercial facility
- Telecom system
- Medical/bank system
- Precision instrument



Specification

Model	3B3 G10K	3B3 G15K	3B3 G20K	3B3 G30K	3B3 G40K	3B3 G60K	3B3 G80K	3B3 GE100K	3B3 GE120K	3B3 GE160K	3B3 GE200K
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA
Input features											
Voltage range (Vac)	380/400/415Vac±15% (±25%)										
Frequency range	40-70(Automatically select synchronization range according to grid frequency)										
Bypass range	±20%										
Battery voltage	384VDC										
Battery quantity	29-32pcs can be adjustable										
Output features											
Output phase	3Φ+N+PE										
Output voltage	380/400/415 Vac										
Output voltage regulated accuracy	±1%										
Output frequency accuracy	AC mode: tracking bypass input in synchronous state; Battery mode:50Hz/60Hz±0.1%										
Output powerfactor	0.8/0.9										
Waveform	<3%(Linear load)；<5% (Non-line load)										
Peak factor	3:1										
Overload	When the load is less than or equal to 125%, it can turn to the bypass output after 10 minutes; when the load is more than 150%, it can turn to the bypass output after 1minutes;										
Others											
System efficiency	AC mode：⩾92%，ECO mode：⩾98%										
Transfer time	0 ms										
Protection	Output short circuit protection, output overload protection, over temperature protection, battery low-voltage protection, output over-under-voltage protection, fan fault protection, etc										
Communication port	Standard：RS232、RS485、Dry contact、USB；For optional：SNMP										
Display	7 inches touchable screen										
Working temperature	0～55℃										
Storage temperature	-15℃～60℃ (Not including battery)										
Humidity	0%-95% (No condensing)										
IP level	IP21							IP20			
Noise(dB)	＜65dB (Within 1 meter)										
Size (D×W×H) mm	560×370×900			693×430×1161		815×430×1160		739×805×1405		865×1285×1600	
Weight(kG)	108	130	146	193	240	300	400	580	680	1080	1180

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

3B3GX 100K-600K

Main feature

- IGBT inverter and output isolation transformer
- Wide input voltage range
- RS232/RS485/dry contact communication port
- SNMP adapter (optional)
- Fully DSP control , high reliability and performance
- 3 phase UPS allow 100% unbalanced load
- EPO function(optional)
- 7 inches touchable LCD screen

Application

- Data center
- Industrial equipment
- Commercial facility
- Telecom system
- Medical/bank system
- Precision instrument



Specification

Model	3B3GX100K	3B3GX120K	3B3GX160K	3B3GX200K	3B3GX250K	3B3GX300K	3B3GX400K	3B3GX500K	3B3GX600K
Capacity	100kVA	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA
Input features									
Pulse rectifier	6/12 pulse							12 pulse	
Voltage range (Vac)	380/400/415Vac±15% (±25%)								
Frequency range (HZ)	40—70Hz Automatically select synchronization range according to grid frequency								
Phase	3φ4W+PE								
Battery voltage (Vdc)	384							480	
Battery quantity (Pcs)	30-33 can be adjusted							38-42 can be adjusted	
Output features									
Power factor	0.8/0.9								
Voltage(V)	L—N:220/230/240±1% L—L:380/400/415±1%								
Frequency(HZ)	Mains normal, track mains frequency;Mains abnormal, 50±0.2%								
Transfer time (ms)	0								
Efficiency(AC mode @ full loads)	⩾92%								
Parallel function	Yes(for optional)								
Waveform	Linear Load THD<3%;Non-linear Load THD<5%								
Overload	125% load keep 10 min, 150% load keep1min								
Peak Factor	>3:1								
Others									
Manual maintenance bypass	with no transfer time bypass maintenance switch								
Communication function	RS232 / RS485/dry contact								
SNMP (optional)	Can be network monitored by SNMP adapter								
Noise (dB)	<65(within 1 meter)								
Alarm	Battery low-voltage, mains abnormal, overload, UPS fault, over temperature protection								
Protection	Input over-voltage protection, battery under-voltage protection, overload protection, short circuit protection, over temperature protection								
Cooling way	Forced cooling								
Working Temperature (°C)	0~40								
Humidity	0~95%, No Condensing								
Size(D×W×H) (mm)	800×800×1600(6 pulse) 1100×800×1800(12 pulse)		800×1100×1800(6 pulse) 1113×1405×2005(12 pulse)			1113×1405×2005	1113×1605×2005	1200×2600×2000	
Weight(KG)	890	1080	1280	1380	1480	1680	2080	2350	2650

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

Line interactive UPS (PWM output)





Specification

Model	N-500	N-600	N-800	N-1000	N-1200	N-1500	N-2000	N-3000
Capacity	500VA/300W	600VA/360W	800VA/480W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W	3000VA/1800W
AVR	No	3 steps of AVR, CPU controlled					2 steps of AVR, CPU controlled	
Input features								
Input voltage range	110V: 90~132Vac	110V: 85~150Vac						
	220V:175~265Vac	220V:145~290Vac					220V: 175~275Vac	
Input frequency range	45-65 Hz							
Output features								
Output voltage	110/120Vac or 220/230/240Vac							
Output voltage range	110V: 90~132Vac	110V: 102~132Vac						
		220V:200~255Vac					220V: 198~242Vac	
Output frequency (DC mode)	50±0.1Hz / 60±0.1Hz (Auto sensing)							
Wave form	PWM (DC Mode)							
Transfer time	Typical 2~6ms, Max.10ms.							
Battery								
QTY & capacity of battery	1 pc*12V4.5Ah	1 pc*12V7Ah	1 pc*12V9Ah	2 pcs*12V7Ah	2 pcs*12V7Ah	2 pcs*12V9Ah	2 pcs*12V9Ah(4 pcs of 12V7Ah is optional)	4 pcs*12V9Ah
Charging period	4~6 hours recover to 90% capacity							
Management								
RJ45/11 & USB, LCD/LED	Optional							
Physical								
Size (mm)	258×101×141	310×97×141		345×146×162			345×122×192	412×145×223
Net weight (kG)	3.8	4.0	4.3	7.0	7.2	9.0	11.1	20.4

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

Line interactive UPS (Sine wave output)





Specification

Model	NSL-1KL(S)	NSL-1.5KL(S)	NSL-2KL(S)	NSL-3KL(S)	NSL-5KL(S)
Capacity	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W	5000VA/4000W
Display	LCD				
AC Mode					
Input voltage range	145~275Vac				
Input frequency	45Hz-65Hz				
Output voltage range	200~240Vac				
Inverter Mode					
Output voltage range	220Vac±5%				
Output frequency	50±0.1Hz / 60±0.1Hz (Auto Sensing)				
Output wave form	Pure Sine Wave				
Transfer time	Typical 2~6ms, Max.10ms.				
Overload capability	Automally shut down in 60sec by 110% load, and shut down in 5sec by 120% load				
Battery					
Battery Voltage (VDC)	'24VDC			'48VDC	
QTY & Capacity of Battery for Standard Type	'2 pc*12V7Ah	'2 pc*12V9Ah	'4pcs*12V7Ah	'4pcs*12V9Ah	'4pcs*12V17Ah
Charging Period	6~8 hours recover to 90% capacity				
Charging Current	5A/10A can beselected for Long backup type				
Management					
USB & RS232	Optional (Alternative)				
Physical					
Size (D×W×H)mm	345×122×192 (L)		375×192×330(L)		
	454×410×298 (S)		495×238×343 (S)	525×335×485 (S)	660×220×376(S)
Net weight (L/S,1pc, kG)	8.5/9.7	10.5/11.6	14.6/19.4	20/24.8	26/50.2

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

NXL/NEP





NXL Series(Pure Sine Wave Inverter)

Model	NXL-600	NXL-800	NXL-1000	NXL-1200
Capacity	600VA/500W	800VA/640W	1000VA/800W	1200VA/1000W
Input				
Input voltage range	Inverter mode: 80~290Vac±5Vac (Inverter mode)			
	UPS mode: 145~275Vac±5Vac (UPS mode)			
Input Frequency	46-65 Hz			
Output				
Output voltage range	150~255Vac±5Vac (Inverter mode)			
	203~238Vac±5Vac (UPS mode)			
Output frequency	50±0.1Hz / 60±0.1Hz (Auto Sensing of Mains)			
Wave form	Pure Sine Wave (DC Mode)			
Transfer time	Max. 10ms.			
Battery				
QTY & Capacity of Battery	12VDC		12/24VDC	
Battery Type	Gel Battery / Sealed Lead-Acid / Open Lead-Acid			
Charging Current	10A/20A (Internal charger can be optional)			
Physical				
Size (D×W×H)mm	290×255×120			
Net weight (KG)	7.6	9.8	10.8	12.2

NEP Series & NEP solar Series - Pure sine wave inverter

Model	NEP-2012 NEP+S-2012	NEP-2024 NEP+S-2024	NEP-3024 NEP+S-3024	NEP-4048 NEP+S-4048	NEP-6048 NEP+S-6048
Capacity	2000W	2000W	3000W	4000W	6000W
Input					
Input voltage range	Inverter mode: 100~290Vac±5Vac				
	UPS mode: 160~275Vac±5Vac				
Output					
Output voltage range	120~252 ± 5Vac (Inverter mode) , 198~242 ± 5Vac (UPS mode), 230Vac (DC mode)				
Output frequency (DC mode)	50±0.1Hz / 60±0.1Hz (Auto Sensing of Mains)				
Wave form	Pure Sine Wave (DC Mode)				
Transfer time	10ms. (Typical)				
Battery					
Rated charging current (max.)	5A/10A/20A/30A/45A/60A				
Norminal DC input voltage	12V	24V		48V	
MPPT	10A/20A/30A/40A/50A/60A				
Physical					
Size (D×W×H)mm	526×277×215 NEP / 526×277×282 NEP Solar				
Net weight (KG)	23		27.1	30.8	40.5

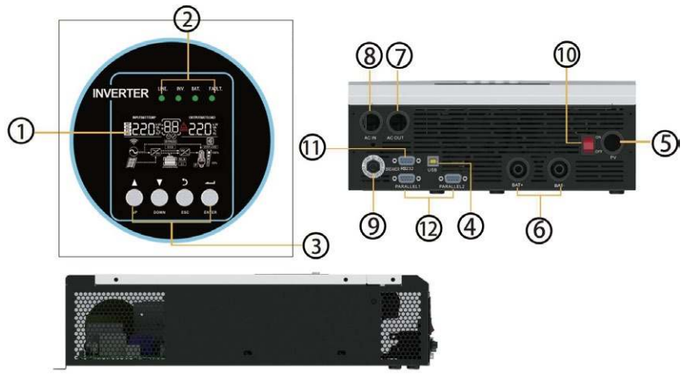
WPV Series

Main feature

- High frequency design, pure sine wave output, work without battery.
- 450V wide PV circuit voltage can work for the all kinds of loads.
- Built in MPPT solar controller.
- Configurable AC/Solar input priority and output priority via LCD settings.
- Extra wide voltage and frequency input range, support mains or generator.
- Multiple-protection function: battery over discharge, overload, over temperature, short
- circuit.
- Automatically turn on after the mains is restored.
- Cold start function; USB and RS232 monitoring functions.
  WIFI and Bluetooth intelligent monitoring function, support mobile APP to view various data (optional).
  Selectable charging for different types of battery via LCD setting.
  Built-in or external WIFI and Bluetooth.
  Designed for household, office, network equipment, manufacturing, solar energy system, oil field, drilling field operation, etc.

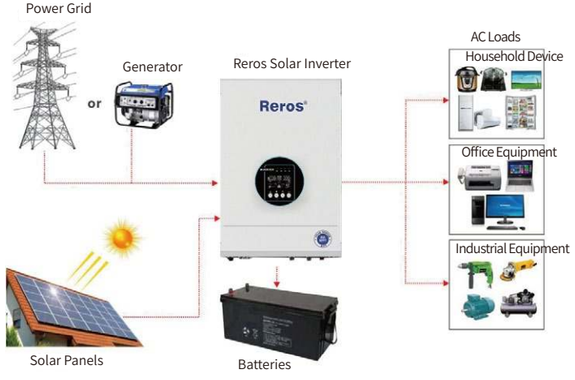


Panel description



1.LCD Display
2.Status Indicators
3.Setting Button
4.USB Interface
5.PV In
6.External Battery Connectors
7. AC Output
8. AC Input
9. Input Circuit Breaker
10. Power Switch
11. Dry Contact
12. Parallel Communication Port(Only for Parallel Model)

Application



Specification

Model	WPV 3024	WPV 3048	WPV 5048	WPV 8048	WPV 10048
Rated Capacity	3000VA/3000W		5000VA/5000W	8000VA/8000W	10000VA/10000W
INPUT					
Input Format	L+N+PE				
Rated Input Voltage	208/220/230/240VAC				
Voltage Range	170~280VAC(For Personal Computers); 90~280VAC(For Home Appliances)				
Frequency Range	50Hz/60Hz(Auto Sensing)				
OUTPUT					
Output Format	L+N+PE				
Rated Output Voltage	208/220/230/240VAC±5%				
Output Frequency	50/60Hz±0.1%				
Waveform	Pure Sine Wave				
Transfer Time	10ms(For Personal Computers), 10ms(For Home Appliances)				
Peak Power	6000VA	6000VA	10000VA	16000VA	20000VA
Overload Capacity	Battery Mode: 1min@102%~110% Load 10s@110%~130%Load 3s@130%~150% Load 200ms@>150% Load				
Peak Efficiency (Battery Mode)	>93%	>94%	>94%	>93%	>93%
BATTERY					
Rated Voltage	24 VDC	48 VDC	48 VDC	48 VDC	48 VDC
Constant Charging Voltage (Can Be Set)	28.2 VDC	56.4 VDC	56.4 VDC	56.4 VDC	56.4 VDC
Float Charging Voltage (Can Be Set)	27 VDC	54 VDC	54 VDC	54 VDC	54 VDC
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	MPPT	MPPT	MPPT	MPPT	MPPT
PV Maximum Input Power	4000W	4000W	5500W	8800W(4400W x 2)	11000W(5500W x 2)
MPPT Tracking Range	120~430 VDC	120~430 VDC	120~430 VDC	120~430 VDC	120~430 VDC
Maximum PV Input Voltage	450 VDC	450 VDC	450 VDC	450 VDC	450 VDC
Maximum PV Charge Current	80 A	80 A	80 A	80A+80A	80A+80A
Maximum Mains Charging Current	60 A	60 A	80 A	80A+80A	80A+80A
Maximum Charging Current	80 A	80 A	80 A	80A+80A	80A+80A
COMMUNICATION INTERFACE					
RS232	Baud Rate 2400				
Expansion Slot Communication Interface	2×5PIN/Pitch2.54mm,Lithium Battery BMS Communication Card, WIFI and Bluetooth Card, Dry Contact card, Etc.				
Parallel Interface	No Parallel		With Parallel (Optional)		
ENVIRONMENTAL PARAMETERS					
Operating Ambient Temperature	0~40°C				
Operating Environment Humidity	20%~95% (Non-Condensing)				
Storage Temperature	-15~60°C				
Altitude	Altitude Should Not Exceed 1000m, Derating Above 1000m, Maximum 4000m, Refer to IEC62040				
Noise	⩽50db				
PHYSICAL PARAMETERS					
Size (D×W×H)mm	110×300×450			145×620×480	
Weight (KG)	7	7	7.8	16	16
STANDARDS	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1				

Battery——Lead acid battery

Main feature

- High safety and reliability
- Free of maintenance
- Low possibility of discharging
- Long life of battery
- Strong adaptability

Application

- UPS/communication system/electric power



Specification

Model	Voltage	Capacity	Dimension(mm)		
	(V)	(Ah)	L	W	H
NP9-12	12	9	151	66	100
NP18-12	12	17	180	77	167
NP24-12	12	20	166	126	180
NP40-12	12	38	197	166	180
NP65-12	12	65	350	166	179
NP100-12	12	100	407	173	240
NP120-12	12	120	407	173	240
NP150-12	12	150	484	171	240
NP200-12	12	200	522	240	241
NP250-12	12	250	520	268	224

Model	Voltage	Capacity	Dimension(mm)		
	(V)	(Ah)	L	W	H
NP200-02	2	200	172	111	328
NP300-02	2	300	171	151	330
NP400-02	2	400	206	175	332
NP500-02	2	500	241	172	331
NP600-02	2	600	301	175	331
NP800-02	2	800	410	175	330
NP1000-02	2	1000	475	175	330
NP1200-02	2	1200	475	175	330
NP1500-02	2	1500	401	351	342
NP2000-02	2	2000	491	350	344
NP3000-02	2	3000	712	350	341

Battery monitoring system

BM3000 system is a set of on-line automatic battery performance test and monitoring system with high reliability intelligent algorithm, high anti-interference ability, flexible and convenient installation mode, so as to provide safe and reliable battery monitoring management solution.

Function

- Real time monitoring of voltage and current.
- Provide battery abnormal alarm information in the shortest time.
- Save and analyze historical data.
- Graphical display of battery parameters.
- Find out the faulty battery in the shortest time after power failure.

48V Lithium rechargeable battery

Main feature

- High safety and power density
- Rackmounted and modular design
- RS232/RS485/CAN communication port
- Support multiple modular battery packs for parallel
- BMS battery management system
- More than 3000 times of charging and discharging

Application

- UPS/communication system/base station power supply



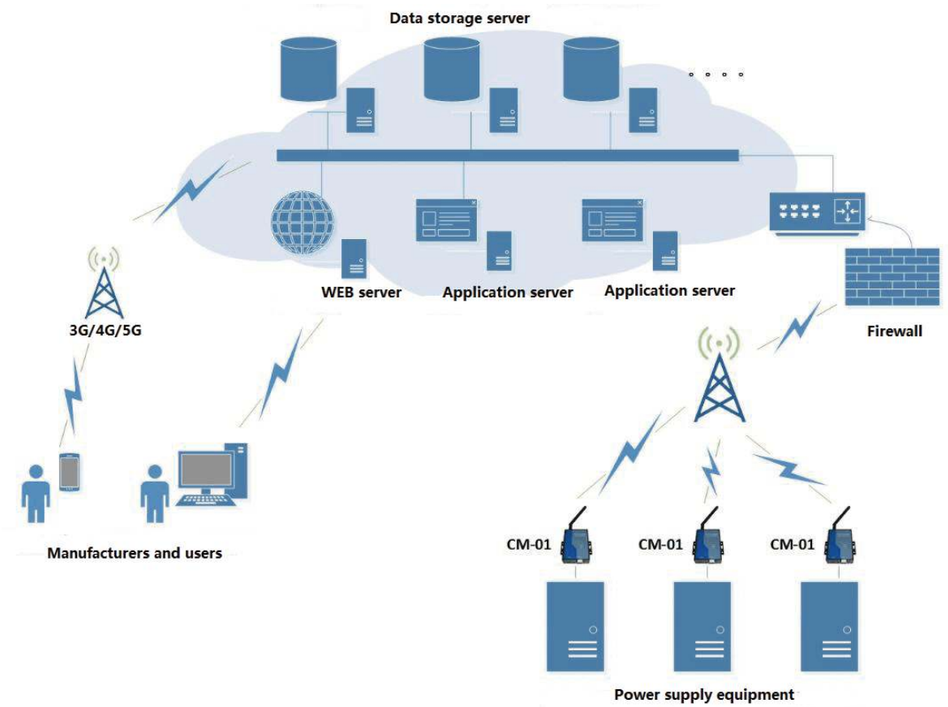


Model	A4850	A48100
Capacity	48V50Ah	48V100Ah
Electric core	3.2V 50Ah	3.2V 100Ah
Charging voltage max.	56.8V	54.75
Voltage at end of Discharge	44.0V	37.5-42.0V
Standard charge	10A	37.5-42.0V
Standard discharge	10A	37.5-42.0V
MaximumContinuous Charge Current	50A	37.5-42.0V
Maximum Continuous Discharge Current	50A	37.5-42.0V
Monitoring	BMS battery management system	BMS battery management system
Operation Temperature Range	Charge : 0~45°C	Charge : 0~45°C
	Charge :-10°C ~ 60°C	Discharge : -20~55°C
Dimension	442*440 *131mm	442*440*261 mm
Weight	22kg	48kg

Monitoring of ups system

Cloud monitoring

- Data acquisition terminal:
  Collect all kinds of operation parameters in power equipment and send them to cloud platform in wireless form.
- Cloud platform processing:
  Compare the received data and give an alarm immediately in case of any alarm.
- Client side:
  Log in to the system through mobile phone or computer, check the running status of the device in real time, and accept real-time alarm information through mobile app, SMS, email and other forms.



power & environment supervision

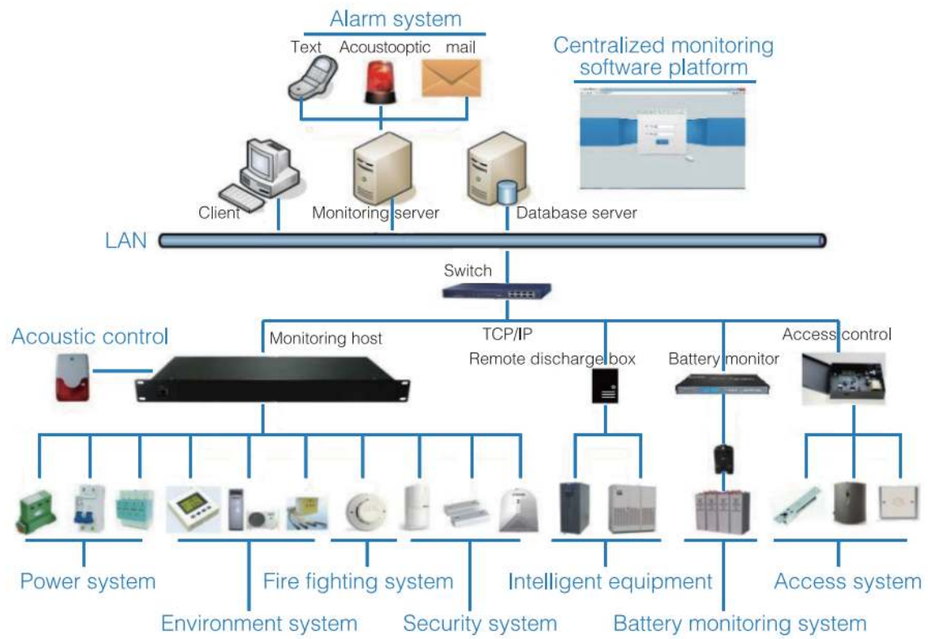
In order to achieve the real-time monitoring of network power and environment, guarantee the normal operation of the network, Reros power is combined with many years of experience in banking terminal equipment research and development, launch WIPS centralized monitoring management system, can realize monitoring of the center machine room, and many branches in 7 * 24 hour.



UPS Device control



Login screen



Software and Accessories





SMS alarm

- This device gives warning and keep records of UPS working situation.The users can know working condition of the UPS through mobile phone very well
- Equipped with clock,make sure accuracy if the time and record history events when powers off
- It can review and download UPS history events by website
- It can set UPS for operating at a fixed time through website.

SNMP Network Management System Function

- This system includes the external SNMP Adapter,inside SNMP Card and SNMP view 2.management software.
- Display and record the working information of UPS
- Display UPS fault information
- Turning on (off) the UPS remotely
- Sending E-mail automatically

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

Battery Cabinet




Specification

Product Model	Installation Size	Wheels	No of Layer	AC Breaker	Connection Wires between Batteries
A1(38AH*2 PCS, 100AH-1PC)	460×202×300	N	1 Layer	Binding Posts	6
A2(38AH*4 PCS, 100AH-2PC)	428×433×300	Y		1P63A	
A3 (38AH*6 PCS, 100AH-3PC)	598×433×350				
A4(38AH*8 PCS, 100AH-4PC)	500×415×618	N	2 Layers		
A6	620×470×618				
A8	780×470×618				
A10	960×470×618				
A12	780×470×928		3 Layers		
A16	780×470×1230		4 Layers		
A20	960×470×1230				
A24	960×470×1530		5 Layers	1P100A	10
A32(Assembled)	780×880×1230		4 Layers	2P100A	16
A40(Assembled)	780×880×1530		5 Layers		
1.5A16 (150AH/16PCS)	780×550×1230		4 Layers	N/G	N/G
1.5A32 (150AH/32PCS)	1040×780×1230				
2A16 (200AH/16PCS)	1050×585×1230				

Product Model	Installation Size	NW(KG)	Description
B0609	375×440×88(2U)	25	This battery cabinet is used for rack-mounted UPS. 6pcs 12V/9AH lead acid batteries are inside.
B1609	612×440×130(3U)	40	This battery cabinet is used for rack-mounted UPS. 16pcs 12V/9AH lead acid batteries are inside.