

MicroMate®

Uninterruptible Power Supply Systems



ZB CRT Series

Convertible Rackmount / Tower (CRT)

High Frequency Online UPS



Personal Computers



Telecom



Industry



Traffic



Medical

1 ~ 10KVA (1 Ph in / 1 Ph out)

Product snapshot:

Model: 1-10KVA

Nominal Voltage: 220/230/240VAC

Nominal Frequency: 50/60Hz

Output Power Factor: 0.9

Stable and Reliable, Comprehensive Protection

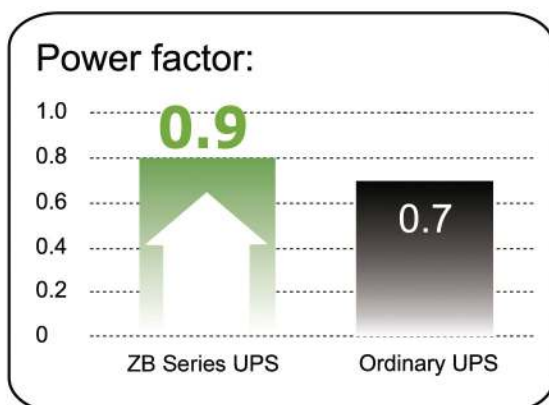
Convertible Rackmount / Tower (CRT) online intelligent UPS, employs DSP all-digital control technology, with more excellent output index and multiterm innovation design, is able to provide full protection for high-performance computer servers, internet equipments, telecommunication systems, industrial process, Internet Data Center (IDC) and other electronic equipments. The rackmount and tower conversion function design greatly improve the UPS adaptability.

Key Features

- Large LCD display interface in English, user-friendly;
- Rack-Tower convertible;
- With ECO operation mode, it can be highly efficient, energy-saving and cost-reducing;
- Double-conversion online design with inherently built-in voltage regulator, noise filter and pure sine wave output;
- Its cut-edge digital technology of DSP (Digital Signal Professor) can greatly improve the products performance and system reliability, and deliver a compact integration with higher power density;
- 19 inch standard cabinet & battery cabinet;
- Auto fan speed adjust;
- Wide range of input voltage.

Tailored for Grid Environment

- Output power factor up to 0.9 - applicable to the tendency of future load evolution, and deliver higher payload capacity;
- Total efficiency of more than 95% can minimize the power loss of UPS and utilization cost;
- Active power factor correction (PFC) technology allows the input power factor approaching to 1, dramatically reducing the immunity on utility grid;
- Wider range of input voltage tailored for all severe environments;
- Excellent input frequency range makes UPS suitable for different power supply devices such as generator set.



Comprehensive and Reliable Protection

- Self-diagnostic function during power boot-up;
- Static internal bypass function;
- DC cold start function;
- Under-voltage protection, output overload and short circuit protection, inverter over-temperature protection, battery voltage warning protection and battery overcharge protection greatly ensure the system stability and reliability;
- Surge protection for FAX and MODEM and other network equipment.

Rack-Tower convertible

- Rack-Tower convertible;
- Unique rotational angle LCD screen patented design allows for the perfect match tower / rack conversion installation mode. The user can select the orientation of LCD Screen text display for tower model / rackmount model via the function buttons on the panel.

Compact Design, Lower Noise

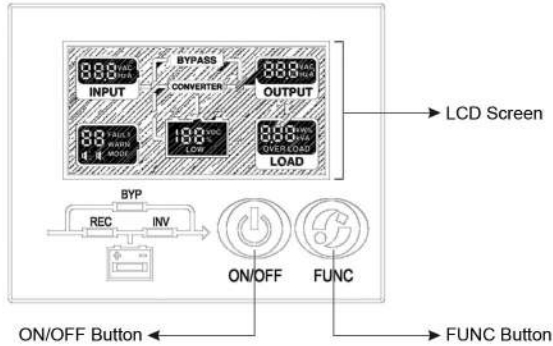
- With leading control technology and craftsmanship, the UPS greatly increase power density and reduce footprint, therefore it is designed to save more valuable space. In addition, its lower noise during operation ensure a more comfortable working environment.

Advanced Operating Mode

- Double-conversion online design with phase-locked regulator to provide more comprehensive and perfect protection;
- Zero transfer time to meet the high requirement for power standards;
- Input power factor correction (PFC) technology with input power factor higher than 0.98 completely eliminates the harmonic pollution on utility grid.

User-friendly interface

- LCD display shows accurately UPS working information and status. The output voltage, output frequency as well as ECO mode can be set on the front panel, convenient for the user to operate the UPS.



LCD display information

Various Choices and Intelligent Management

- Large LCD display showing loading level and battery level, input and output data for the ease to operate and maintain;
- The RS232 interface is standard, free local monitoring software is provided;
- USB communication port card is optional. In addition to the fixed USB interface, there is a choice for Goldfinger snap-gauge structure port interface;
- SNMP card is optional. SNMP can realize the Ethernet TCP/IP communication for remote monitoring. SNMP is also Goldfinger snap-gauge structure ready;
- Dry contact function card is optional. Dry contact card can alert the user about abnormal UPS status. These signals may be used to control other equipment.

DSP Full-digital Control

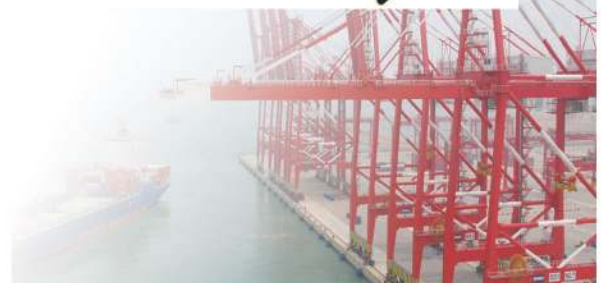
- Fully digital control to avoid the analog device failure risks and increase the system stability.

Flexible Configuration on Demand

- Extensive expansion capabilities to meet customer's requirements;
- Online maintenance function while continuously providing the power to the loads;
- Support EPO. In the event of an emergency, users can shut off UPS rapidly;
- Optional Parallel Kit: realize the parallel extension and redundancy function and offer more flexibility and safety for future power requirement planning;
- Optional Isolation Transformer: provide isolation protection.

Intelligent Power monitoring and Management Software

- Support Microsoft Windows 95 / Me / NT / 2000 / XP / 7 / 8 / Linux operating system;
- Support TCP/IP network monitoring: provide a hierarchical directory structure management network; unusual event to user through broadcast, email, messenger notifications call or mobile messenger;
- Support timing boot-up / shut-off UPS function;
- Support timing UPS self-test function;
- Support graphically displayed UPS status function in real time;
- Support network to deactivate the function of multiple servers and workstations;
- Support Smart Event function;
- Support proper shut-off for most application software and saving related document;
- Support for English and multi-language platform;
- Support the online help function with data records (including AC mains, UPS, load, battery) and event function for the ease of system administrators to conduct the routine maintenance.



ZB CRT Series Convertible Rackmount / Tower Online UPS : 1KVA to 10KVA

Technical Specifications

Model	ZB1KCRT-11	ZB1KCRTS-11	ZB2KCRT-11	ZB2KCRTS-11	ZB3KCRT-11	ZB3KCRTS-11	ZB6KCRT-11	ZB6KCRTS-11	ZB10KCRT-11	ZB10KCRTS-11
Capacity	1KVA / 900W		2KVA / 1800W		3KVA / 2700W		6KVA / 5400W		10KVA / 9000W	
Nominal Voltage	220 / 230 / 240VAC Single phase 2 wire + E									
Nominal Frequency	50Hz / 60Hz									
Input										
Voltage Range	110V~288VAC									
Frequency Range	50Hz: (46 ~ 54Hz) ; 60Hz: (56Hz ~ 64Hz)									
Power Factor	> 0.98					0.99				
Output										
Voltage Precision	220 / 230 / 240 ±2%VAC									
Frequency Precision	50 / 60Hz ±0.05Hz									
Power Factor	0.9									
Harmonic Distortion	Linear load < 3% , Non-linear load < 6%									
Overload Capacity	load > 110% for 60s ; load > 150% for 30s ; load > 200% for 30ms .					load > 105% for 60s ; load > 125% for 30s ; load > 150% for 1s .				
Current Crest Ratio	3 : 1									
Transfer Time	0ms (AC mode to DC mode) ; < 4ms (AC mode to Bypass mode)									
Battery										
DC Voltage	36VDC		72VDC		96VDC		192VDC			
Recharge Time	5 hours to 90% full charge after a completely discharge (for models with built-in batteries only)									
Charging Current	1A	4A	1A	4A	1A	4A	2A	4A	2A	4A
Panel Display										
LCD	UPS status, input / output voltage and frequency, battery voltage, capacity, adjust voltage, ECO mode									
Communication										
Communication Port	Parallel Kit (Optional), RS232, SNMP card (optional), USB port (Optional), Dry Contact (Optional), ECO Kit (Optional)									
Working Environment										
Temperature	0°C ~ 40°C									
Relative Humidity	0 ~ 95% (Non-condensing)									
Storage Temperature	-25°C ~ 55°C									
Elevation	1500m									
Noise Level	< 45dB					< 50dB				

Physical Specifications

Model	Capacity	Dimension (W*D*H) mm ³	N.W (KGS)	G.W (KGS)
ZB1KCRT-11	1KVA / 900W	440 x 430 x 86	11.5	13.5
ZB2KCRT-11	2KVA / 1800W	440 x 480 x 173	25	27
ZB3KCRT-11	3KVA / 2700W		31	33
ZB6KCRT-11	6KVA / 5400W	440 x 660 x 173	59	61
ZB10KCRT-11	10KVA / 9000W		67	69
ZB1KCRTS-11	1KVA / 900W	440 x 430 x 86	7	9
ZB2KCRTS-11	2KVA / 1800W	440 x 480 x 86	8	10
ZB3KCRTS-11	3KVA / 2700W		9.5	11.5
ZB6KCRTS-11	6KVA / 5400W	440 x 550 x 86	17.5	19.5
ZB10KCRTS-11	10KVA / 9000W		20.5	22.5
External Battery Module (EBM)				
BQS9032-69	36VDC 9AH 3 x 1	440 x 480 x 86	21.3	23.5
BQS9061-69	72VDC 9AH 6 x 1		21.3	23.5
BQS9081-89	96VDC 9AH 8 x 1		26.5	29.0
BQS9161-169	192VDC 9AH 16 x 1	440 x 550 x 86	53.0	55.5
BQS7032-67	36VDC 7AH 3 x 1	440 x 480 x 86	19.5	22.0
BQS7061-67	72VDC 7AH 6 x 1		19.5	22.0
BQS7081-87	96VDC 7AH 8 x 1		24.5	27.0
BQS7161-167	192VDC 7AH 16 x 1		49.0	51.5

STANDARD: Conform to GB / IEC regulation: EMC: GB7260.0 / IEC62040-2 GB / 17626.2~5 / IEC61000-4-2~5 SAFETY: GB4943

NOTE: Product specifications are subject to change without further notice