

ZB Series

Tower

High Frequency Online UPS



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

10 ~ 20KVA (3 Ph in / 1 Ph out)

Product snapshot:

Model: 1-10KVA (1Ph in/1Ph out)

Model: 10-20KVA (3Ph in/1Ph out)

Nominal voltage: 220/230/240/VAC (1-10KVA)

Nominal voltage: 380/400/415VAC (10-20KVA)

Nominal frequency: 50/60Hz

Output Power factor: 0.8 or 0.9

Stable and Reliable, Comprehensive Protection

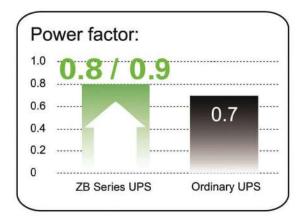
ZB Series 1-20KVA adopts the double conversion online architecture ideal for resolving all issues on power supply. This state-of-the-art solution is especially designed for eliminating the power loss, extra high or low voltage of utility power, voltage sags or damped oscillation, high-voltage pulse, voltage fluctuation, surge voltage, harmonic distortion, clutter immunity, and frequency fluctuation etc., delivering safe and reliable power supply guarantee for user's load.

Key Features

- 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;
- Output power factor up to 0.8 or 0.9 applicable to the tendency of future load evolution, and deliver higher payload capacity;
- Higher payload and overload capability, better load compatibility, and suitable for various load type;
- Total power factor up to 90% can minimize the power loss of UPS and utilization cost for user;
- · High Scalability: fully meet the customer's demands;
- Emergency Power Off (EPO): UPS can be instantly shut off in case of any emergency;
- Powerful Interference immunity capability in compliance with EMC requirements of IEC61000-4, deliver your device a clean electric environment.

Tailored for Grid Environment

- Output power factor up to 0.8 or 0.9 applicable to the tendency of future load evolution, and deliver higher payload capacity;
- Total efficiency of more than 90% can minimize the power loss of UPS and utilization cost for user;
- 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 to different power supply devices, i.e. generator set.



High Reliability

- Its cut-edge digital control technology of DSP (Digital Signal Processor) can deliver higher quality, performance and reliability;
- Higher payload and overload capability, better load compatibility, and suitable for various load type;
- Powerful Interference immunity capability in compliance with EMC requirements of IEC61000-4, deliver your device a clean electric environment.

Flexible Configuration on Demand

- · High Scalability: fully meet the customer's demands;
- Online Intervention: safe and online intervention without any power supply interruption to load;
- Emergency Power Off (EPO): UPS can be instantly shut off in case of any emergency;
- Parallel Kit: realize the parallel extension and redundancy function, offer more flexibility and safety for user's power supply planning;
- Isolating Transformer: offer isolation protection for the user.

Intelligent battery management

- With its advanced intelligent charge control mode, UPS
 can automatically select the optimal charge mode
 according to the battery type and conditions, thus further
 maximizing the lifespan of battery bank. In addition, the
 system can periodically conduct the charge & discharge
 management for the battery bank. User also can select the
 battery voltage (192V or 240V) on demands;
- The user can query and set the proper UPS control parameters for intelligent UPS management; automatically identify and adapt to 50/60Hz power supply system, fulfilling the requirements in various power supply systems;
- Perfect failure protection and alarm function: provide complete failure protection and clear alarm notification function in case of I/O over-voltage or under-voltage, battery over-charge or under-voltage, overload, and short circuit.

Compact Design, Lower Noise

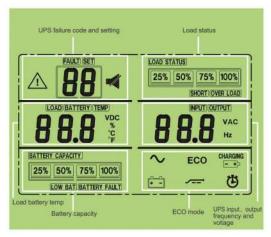
 With leading control technology and craftsmanship, this UPS can greatly increase the power density and reduce the footprint, therefore save more expensive space in your office environment. Additionally, its lower noise during operation can allow you a more comfort working environment.

Rich Communication and Monitoring Features

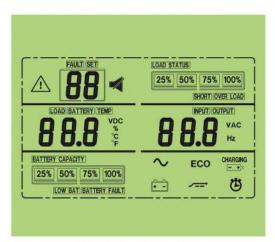
- Provide RS232, USB interface and communication cable for local or remote power supply management;
- Provide intelligent slot available to Web Power (SNMP), CMC, or AS400 card (dry contact) for remote management and monitoring function.

User-friendly interface

 LCD display accurate UPS working environment and working status to the user, through the LCD display panel can be set output voltage and frequency, at the same time can be set ECO mode, convenient for user to operate the UPS.



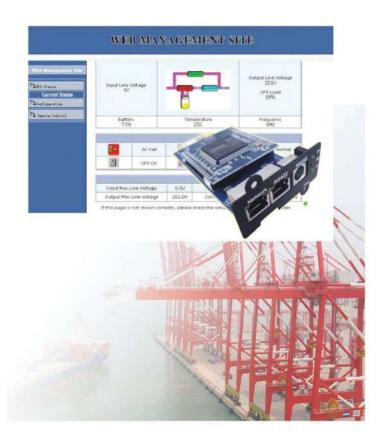
LCD Panel instruction



LCD display information

Intelligent Power monitoring and Management Software WinPower2003

- Support Microsoft Windows95/Me/NT/2000?XP/Linus operating system. Suit for TCP/IP local area network;
- Support TCP/IP network monitoring; Provide a hierarchical directory structure management network; Unusual event can be notified to user through broadcast, e-mail, messenger call or mobil messager; Automatically detective the UPS model and the communication port; Provide password protection;
- · 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, so that the user can defined according to their needs;
- Accept the abnormal power;
- Support to shut off most of the applications and the preservation of related document;
- Support for English and multi-language platform;
- Support the online help function; with data records (including mains, UPS, load, battery), and event function, to convenient the system administrator for the routine maintenance.





ZB Series Tower Online UPS 1KVA to 10KVA (1-Phase / 1-Phase) 10KVA to 20KVA (3-Phase / 1-Phase)

Technical Specifications

		Standard	ZB1K-11	ZB2K-11	ZB3K-11	ZB6K-11	ZB10K-11	ZB10K-31	N.A.	
Model		S-Model	ZB1KS-11	ZB2KS-11	ZB3KS-11	ZB6KS-11	ZB10KS-11	ZB10KS-31	ZB15KS-31	ZB20KS-31
Capacity		O-MOGE!	1KVA	2KVA	3KVA	6KVA		CVA	15KVA	20KVA
Nominal Voltage		INVA				101				
Nominal Frequency			220 / 230 / 240VAC 1-phase 2 wire + G 380 / 400 / 415VAC 3-phase 4 wire + G 50Hz / 60Hz							
Input	dericy					00112	00112			
Voltage Range			115 ~ 300VAC 120 ~ 275VAC 115 ~ 300VAC 120 ~ 275VAC						75VAC	
Frequency Range				110 0007710	50	0Hz: (46 ~ 54Hz) ; 60Hz: (56Hz ~ 64Hz)			120 210010	
Power Factor				> 0.98		0.99 > 0.98			0.99	
Output				0.00				0.00		
Voltage Precis	sion					220 / 230 / 240	X (1+2%)VAC			
Frequency Precision			220 / 230 / 240 X (1±2%)VAC 50 / 60Hz ±0.05Hz							
Power Factor			0.8 / 0.9							
Output Power			800 / 900W	1600 / 1800W	2400 / 2700W	4800 / 5400W	-	9000W	12 / 13.5KW	16 / 18KW
Harmonic Distortion			0007 90044	10007 100044	800W 2400 / 2700W 4800 / 5400W 8000 / 9000W 12 / 13.5KW 16 / 18KW Linear load <3%, Non-linear load <6%					
Hamoric Distributi			load > 110% for 47s; 105% < load ≤ 125%, for 60s;							
Overload Capacity		load > 150% for 25s;			125% < load ≤ 150%, for 30s;					
Overload Capacity			load > 200% for 20s;			load > 150%, for 0.5s.				
Current Crest Ratio			3 : 1							
Transfer Time			Oms (AC mode ↔ DC mode); (AC mode ↔ Bypass < 4ms)							
Battery					onis (Ao ii	iode Do mode)	, (NO IIIOGE -> Dyp	41110)		
DC Voltage			36VDC 72VDC 96VDC 192 or 240VDC							
Recharge Time		30700	5 hours to 90% (standard model with built-in battery) N.A.						Δ.	
Recharge Time Standard		1A			2A			N.A.		
Charging Current		S-Model	10/23			4A			1A. 4A	
Panel Display		4A / 8A (Optional) 4A 4A						^		
LCD	Y		LIDS status	innut / output volt	age and frequency,	hattani valtana sa	nacity load tompo	atura history racor	de adjust voltage l	ECO mode
Communicat	ion		OF 3 status	, input / output void	age and frequency,	battery voltage, ca	pacity, load temper	ature, history recor	us, adjust voltage, i	ECO IIIOGE
Communication	0000		4		Deaga	SNMD card (anti-	onal), USB port (Or	tional)		
					K3232	., Sivinir Card (optic	onar), OSB port (Op	outrial)		
Working Env	ironment					0,0	40*0			
Temperature			0°C ~ 40°C 0 ~ 95% (Non-condensing)							
Relative Humidity Storage Temperature			-25°C ~ 55°C							
Elevation			1500m							
Noise Level		< 45dB < 50			(3.5537/2)			< 55dB		
Physics Characteristic			< 430B	A.	- 50	705			- 500B	
Weight (KG)	Standard with Built-in	N.W	12.0	23.0	31.5	57.0	67.5	72.0	N.	Λ
		G.W	14.0	25.5	33.5	59.0	67.5 70.0	76.0	N.	11-02
	Batteries S-Model	N.W	6.5	10.5	277.7633	18.0	20.0	20.0	35	9 C. 76 C.
	without	G.W	8.0	13.0	14.0 16.5	24.0	24.0	24.0	35	54(D)
	Batteries Standard US		6.0	13.0	10.5	24.0	POPULAR TO REPORT AND ADDRESS.	24.0		
	Dimension Standard UPS Modu W*D*H (mm) S-Model UPS Modu		145 x 355 x 220	190 x 383 x 318	190 x 433 x 318	248 x 500 x 616 248 x 500 x 460			N.A. 248 x 500 x 616	
Dimension W*D*H (mm)	0.11-4	0.11.1.1.	145 X 355 X 220	190 X 303 X 316	190 X 433 X 316	046 -	20400		040 - 500 - 640	

Note: N.A. = Not Available

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