



# **ZBL Series**

Tower

**High Frequency Online UPS** 









Serv

1 ~ 10KVA (1 Ph in /1 Ph out)
10 ~ 20KVA (3 Ph in /1 Ph out)
(Industrial Grade Models also Available)

#### **Product Snapshot:**

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

Norminal Input: 220/230/240/VAC (1-10KVA) : 380/400/415VAC (10-20KVA)

Norminal Output: 220/230/240/VAC (1-20KVA

Norminal Frequency: 50/60Hz

# Stable, Reliable and Comprehensive Protection

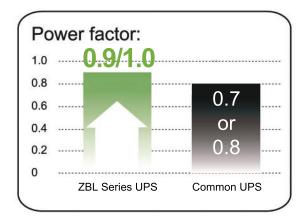
ZBL series 1-20KVA adopts double conversion through online architecture, which is designed to cater for various power related issues. The state-of-art solution can solve power loss and impurities such as over- and under-voltage, voltage sags or damped oscillation, high-voltage pulse, voltage fluctuation, voltage surge, harmonic and frequency distortion problems. It delivers a clean, safe and reliable power supply to your electrical or electronic loads.

#### **Key Features**

- Cutting-edge digital technology i.e. DSP (Digital Signal Processor) can greatly improve the products performance and system reliability and deliver a compact integration with higher power density;
- Output power factor up to 0.9/1.0 applicable to the trend of future load evolution and deliver higher payload capacity;
- Higher payload and overload capability, better load compatibility and suitable for various load types;
- Total power factor up to 100% can minimize the power loss of UPS and utilization cost for user;
- · High Scalability: fully meet the customer's demands;
- 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 0.9 applicable to the trend 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 cutting-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;
- 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

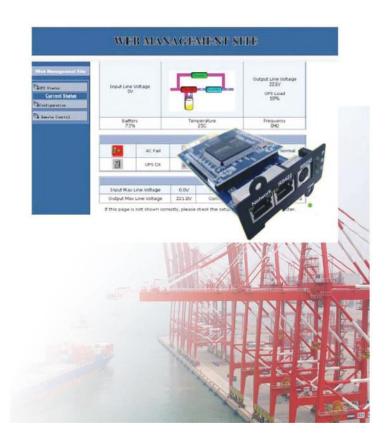
 LCD display accurate UPS working environment and working status to the user, through the LCD display panel can view output voltage and frequency, convenient for user to operate the UPS.



LCD + LED Panel instruction

# 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 mobile messenger; 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.





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

# **Technical Specifications**

Model	Standard	ZBL1K-11	ZBL2K-11	ZBL3K-11	ZBL6K-11	ZBL10K-11	N.A.		
	S-Model	ZBL1KS-11	ZBL2KS-11	ZBL3KS-11	ZBL6KS-11	ZBL10KS-11	ZBL10KS-31	ZBL15KS-31	ZBL20KS-31
	Industrial Grade	ZBL1K-11E	ZBL2K-11E	ZBL3K-11E	ZBL6K-11E	ZBL10K-11E	ZBL10K-31E	ZBL15K-31E	ZBL20K-31E
Capacity		1KVA	2KVA	3KVA	6KVA	10	KVA	15KVA	20KVA
Nominal Voltage		220 / 230 / 240VAC 1-phase 2 wire + G					380 / 400 / 415VAC 3-phase 4 wire + G		
Nominal Frequency				×6	50Hz	/ 60Hz	'		
Input									
Voltage Range		115 ~ 300VA 1-phase 2 wire + G			120 ~ 275VAC 1-phase 2 wire + G		209~475VAC 3-phase 4 wire + G		
Frequency Range		,			50Hz: (46 ~ 54Hz) ; 60Hz: (56Hz ~ 64H		iz)		
Power Factor		> 0.98			0.99		> 0.95 0.99		99
Output							10000000		
Voltage Precision					220 / 230 / 240	X (1±2%)VAC			
Frequency Precision		50 / 60Hz ±0.05Hz							
Power Factor					100000000000000000000000000000000000000	.0			
Output Power		1000W	2000W	3000W	6000W		0KW 15KW 20KW		
Harmonic Distortion		Linear load <3% , Non-linear load <6%						ZUINT	
Hamoric Distortion		Signal about microscopy from the process of the pro							
Overload Capacity				-courtewe	105% < load ≤ 125%, for 10minutes;				
		125% < load ≤ 150%, for 5s; load > 150% for 0.5s,			125% < load ≤ 150%, for 60s; load > 150% for 0.5s.				
O1 O1 D-6-		K	Jau > 150% for 0.58	s.	3	:1	load > 150% for 0.58	<u>*</u>	
Current Crest Ratio		-		0 (40	0.000	1061	4		
Transfer Time				ums (ACI	mode ↔ DC mode)	; (AC mode ↔ Byp	ass < 4ms)		
Battery					92	400		W. 175.0	
DC Voltage		24VDC / 36VDC   48VDC / 72VDC   72VDC / 96VDC   192VDC / 216VDC / 240VDC							
Recharge Time	200000	5 hours to 90% (standard model with built-in battery)  N.A.							
Charging Current	Standard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1A		N.A.		
	S-Model				T		10A		
	Industrial Grade	1A			1A		4A 4A / 8A (Optional)		
Panel Display							(200,000 00 0		
LCD			UPS status, inpu	it / output voltage ar	nd frequency, batter	y voltage, battery c	apacity, load capaci	ty, adjust voltage	
Communication									
Communication Port				RS232, SNMP card	(optional), USB po	rt (Optional), Dry co	ntact card (optional)	)	
Working Environmen	nt								
Temperature	Standard	1981 30 C C C C C C C C C C C C C C C C C C							
	Industrial Grade	0°C~50°C							
Relative Humidity		0 ~ 95% (Non-condensing)							
Storage Temperature	ß				-25°C	~ 55°C			
Elevation		1500m							
Noise Level		< 45dB < 50dB					< 55dB		
Physics Characteris	tic								
Weight (KG)	Standard UPS Module	8.8	21.2	28.7	59.0	62.0	N.A.		
	S-Model UPS Module	4.0	6.7	7.4	14.0	16.0	16.9	3	1.0
	Industrial Grade	12.1	27.2	34.7	71.0	74.0	16.9	3	1.0
Dimension	Standard UPS Module	445 w 000 000	200		191 x 460 x 720		N.A.		
W*D*H (mm)		145 x 299 x 209	192 x 460 x 328		191 x 405 x 330		212 x 420 x 500	00 248 x 565 x 500	
W*D*H (mm)	S-Model UPS Module		192 X 40	00 X 326	191 X 40	33 X 330	212 X 420 X 300	240 X S	000 X CO

STANDARD: EMC: EN 62040-2: 2018, IEC 62040-2: 2016 EN 61000-3-2:2014 EN 61000-3-3:2013 (IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004, IEC 61000-2-2:2002)

LVD: IEC 62040-1:2008 (First Edition) + Am 1: 2013