



# Tower Series High Frequency Online UPS

- 1KVA ~ 40KVA Tower UPS -

UPS



Single phase input, single phase output / Three phase input single phase output



Three phase input, single phase output / Three phase input three phase output



#### Range of Application

Tower online all intelligent high frequency pure online UPS, which are generally used on places required high quality electricity, such as hospital equipment's, corporations, IT loading equipment's, industrial computer terminals. As UPS inverter circuit always in a state of work, the stored energy of UPS can be inverted and output alternating current without switching. Tower series UPS support different types of operation systems, apply to TCP/IP Local LAN and support the networking monitoring of UPS.

### Product Features

- Support LBS synchronic control
- Intelligent fan speed regulation function
- Support bypass maintenance (three phase input single phase output)
- LCD display function, user friendly display interface
- Three-stage extensible charging design to ensure a more remarkable performance of the batteries
- Support parallel operation of more than 3 machines with shared battery packs;
- Support DC cold starting; without utility, the load can keep operating with the power offered by batteries
- Powerful charging function is convenient to extend the capacity of standby batteries. Intelligent charging mode even extending battery life to cut down expenditures.
- Support automatic restart function: when utility goes normal after UPS is shutdown under battery mode, UPS can automatic restart
- Good technical indicators: the approximate 1 input power factor, largely decreased the pollution to utility grid and improved the use ratio of grid, so Tower Series UPS are real eco-type power
- Support fun gas proofing, moisture proofing and salt spray fog proofing, in order to decrease or

#### 😝 Function Features

- Advanced DSP digital control technology, guarantee high UPS performance, products stable and quality reliable.
- Zero switching time: When the city electricity is abnormal, UPS will turn to battery mode with zero time, which can effectively ensure the safety and reliability of the instruments.
- Green and Environment: Meet the State Administration of electronic information products' pollution control, will cause no harm to human and environment under normal usage.
- Frequency adaptive system: In order to meet different power system requirements, it can be set to fixed or automatic identification to fit for 50Hz/60Hz.
- Input power factor correction function enable the factor to be over 0.99 to avoid grid environment pollution, so as to save energy and decrease cost
- Wide input voltage and frequency range: Even in places where electricity environment is very bad, it can also keep stable work under utility supply mode, which decrease the number of battery discharge and prolog the service life of batteries.



Model		X2-1101 (L)	X2-1102 (L)	X2-1103 (L)	X2-1106 (L)	X2-1110 (L)		
Capacity		1kVA / 0.8kW	2kVA / 1.6kW	3kVA / 2.4kW	6kVA / 4.8kW	10kVA / 8kW		
			Input					
Connection Mode			Single Phase Earthing					
Input Voltage		200/208/220/230/240VAC						
Voltage Range		110~300VAC						
Frequency				40~70Hz				
Power Factor	Power Factor ≥0.99							
			Output					
Output Voltage		200/208/220/230/240VAC						
Voltage Regulation		± 1%						
Frequency	Synchronous Correction Range	46~54Hz / 56~64Hz						
	Battery Model	50Hz ± 0.1Hz / 60Hz ± 0.1Hz						
Distortion (THDU) ≤3%								
Peak Coefficient		≥3:1						
Overload Capacity		110%, convey to bypass after 1h; 125, convey to bypass after 10min; 150%, convey to bypass after 1 min.						
Time Switching	Electric City/Battery	0ms						
Time Switching	Inverter/Bypass	<4r	ms (standard environm	ent)	0ms			
			Battery					
	Battery Cells	2	4	6	16 (16-20 optional)			
Standard Machine	Charging Current		1.0A (Max)		2.0A (Max)			
	Battery Model	12V 9AH						
	Battery Cells	3	6	8	16 (16-20 optional)			
Long Lasting	Charging Current		•	1A/2A/4A/6A settable				
	Battery Model	Depends on the applicant						
		Con	trol Management					
City Electricity Model		≥91%			≥93%			
Battery Model		≥91%			≥93%			
		Di	splay Interface					
LCD/LED		Loading size,	battery capacity, city e	lectricity mode, battery	mode, bypass mode,	fault indication		
		Con	trol Management					
Intelligent RS-232/U	ISB	Suppo	ort Windows 2000/2003	3/XP/Vista/2008, Wind	ows 7/8, linux, Unix an	d MAC		
Option SNMP			Suppor	t SNMP Internet Mana	gement			
			Environment					
Temperature		0~40°C						
Relative Humidity		0~95% (Non condensing)						
Noise		<50dB@1m			<55dB@1m	<58dB@1m		
		Phy	ysical Character					
Standard Machine	Size: Width x Depth x Height (mm)	145 x 282 x 220	145 x 397 x 220	190 x 421 x 318	190 x 369 x 688	190 x 442 x 688		
	Net Weight (kg)	11	18	29	62	67		
Long Lasting	Size: Width x Depth x Height (mm)	145 x 282 x 220	145 x 3	97 x 220	190 x 369 x 318	190 x 442 x 318		
	Net Weight (kg)	6	8	9	13	17		

UPS



Model		X2-3110 (L)	X2-3115 (L)	X2-3120 (L)	X2-3130 (L)			
Capacity		10kVA / 8kW	15kVA / 12kW	20kVA / 16kW	30kVA / 24kW			
Input								
Connection Mode		Three-phase + four wire						
Input Voltage		380/400/415VAC						
Voltage Range		285~520VAC @ 100% Load; 176~520VAC @ 50% Load						
Frequency		40~70Hz						
Power Factor		≥0.99						
		Output						
Output Voltage		200/208/220/230/240VAC						
Voltage Regulation		± 1%						
Frequency	Synchronous Correction Range	46~54Hz / 56~64Hz						
	Battery Model	50Hz ± 0.1Hz / 60Hz ± 0.1Hz						
Distortion (THDU)			≤2% (Linear load), ≤	3% (Non-linear load)				
Peak Coefficient		≥3:1						
Overload Capacity		110%, convey to bypass after 1h; 125, convey to bypass after 10min; 150%, convey to bypass after 1 min.						
Time Quitabine	Electric City/Battery	0ms						
Time Switching	Inverter/Bypass	0ms						
		Battery						
	Battery Cells	16 (16-20 optional) 20 (18-20 option						
Standard Machine	Charging Current	1A/2A/4A/6A/12A settable						
	Battery Model	Depends on the applicant						
Efficiency								
City Electricity Mode	el	≥93%						
		Display Inter	face					
LCD/LED		Loading size, battery capacity, city electricity mode, battery mode, bypass mode, fault indication						
		Control Manag	ement					
Intelligent RS-232/U	SB	Support Windows 2000/2003/XP/Vista/2008, Windows 7/8, linux, Unix and MAC						
Option SNMP		Support SNMP Internet Management						
		Environme	ent					
Temperature		0~40°C						
Relative Humidity		0~95% (Non condensing)						
Noise		<50dB@1m <58dB@1m						
Physical Character								
Size: Width x Depth	x Height (mm)	190 x 44	42 x 318	190 x 575 x 318	250 x 815 x 826			
Net Weight (kg)		1	6	22	62			

## Product Parameters

Model		X2-3310 (L)	X2-3320 (L)	X2-3330 (L)	X2-3340 (L)		
Capacity		10kVA / 8kW	15kVA / 12kW	20kVA / 16kW	30kVA / 24kW		
		Input					
Connection Mode		Three-phase + four wire					
Input Voltage		380/400/415VAC					
Voltage Range	Voltage Range		285~520VAC @ 100% Load; 176~520VAC @ 50% Load				
Frequency		40~70Hz					
Power Factor		≥0.99					
		Output					
Output Voltage		200/208/220/230/240VAC					
Voltage Regulation		± 1%					
Frequency	Synchronous Correction Range	46~54Hz / 56~64Hz					
	Battery Model	50Hz ± 0.1Hz / 60Hz ± 0.1Hz					
Distortion (THDU)			≤2% (Linear load), ≤	3% (Non-linear load)			
Peak Coefficient	Peak Coefficient		≥3:1				
Overload Capacity		110%, convey to bypass after 1h; 125, convey to bypass after 10min; 150%, convey to bypass after 1 min.					
Time Cuitables	Electric City/Battery	0ms					
Time Switching	Inverter/Bypass	Oms					
		Battery					
	Battery Cells		16 (16-20 optional)		20 (18-20 optional)		
Standard Machine	Charging Current	1A/2A/4A/6A/12A settable					
	Battery Model	Depends on the applicant					
		Efficienc	у				
City Electricity Model		≥93%					
		Display Inter	face				
LCD/LED  Loading size, battery capacity, city electricity mode, battery mode, bypass mode indication					, bypass mode, fault		
		Control Manag	ement				
Intelligent RS-232/U	ISB	Support Windows 2000/2003/XP/Vista/2008, Windows 7/8, linux, Unix and MAC					
Option SNMP		Support SNMP Internet Management					
		Environme	ent				
Temperature		0~40°C					
Relative Humidity		0~95% (Non condensing)					
Noise		<58dB@1m <60dB@1m					
Physical Character							
Size: Width x Depth	Size: Width x Depth x Height (mm)		42 x 318	190 x 575 x 318	250 x 815 x 826		
Net Weight (kg)		16 22 62			62		