

-Online tower UPS-
UB Series

1~3kVA 1:1phase PF:0.9



Features

- True double-conversion
- Digital control guarantees high reliability
- ECO mode operation for energy saving
- Output receptacle control for non-critical load shedding capability
- Emergency power off function(EPO)
- Generator compatible
- Communications:RS-232,USB,SNMP card(Optional), Relay card (Optional)
- Bypass can be used when UPS is off(Setted in LCD)
- Cold start



Control Panel
 Up to 50 items set by LCD

- 1.EPO port
- 2.Intelligent slot for SNMP card,dry contact card etc.
- 3.External battery cabinet connector
- 4.Output slots including two segments
- 5.Output terminals
- 6.Input slot
- 7.RJ45 surge suppress port
- 8.RS232 port
- 9.USB port



Battery pack.
 (Optional)



Optimized battery
 configuration
 1K:24/36Vdc
 1.5K:36Vdc
 2K:48/72/96Vdc
 3K:72/96Vdc



Rear Panel

Technical Specifications

MODEL	UB10-24	UB10	UB10L	UB15	UB15L	UB20-48	UB20	UB20-96	UB20L	UB20L-96	UB30	UB30-96	UB30L	UB30L-96		
Capacity (VA/Watts)	1000VA/900W			1500VA/1350W			2000VA/1800W				3000VA/2700W					
INPUT																
Nominal Voltage	208/220/230/240Vac(L+N+PE)															
Operating Voltage Range	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load															
Operating Frequency Range	50Hz: 45~55Hz, 60Hz: 55~65Hz Auto Sensing															
Power Factor	> 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load															
OUTPUT																
Output Voltage	208/220/230/240Vac:230Vac(Default)															
Power Factor	0.9															
Voltage Regulation	± 1%															
Frequency	Synchronized Range 45~55Hz ± 0.02Hz@ 50Hz, 55~65Hz ± 0.02Hz@60Hz															
	Battery Mode & None Synchronized Range (50/60 ± 0.02)Hz															
Crest Factor	3:1															
Harmonic Distortion (THDv)	≤3% with linear load															
	≤5% with non-linear load															
Waveform	Pure Sinewave															
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 4ms(Typical)															
EFFICIENCY																
AC Mode	88%			88%			89%				90%					
Battery Mode	84%	85%		85%		85%	86%				87%					
ECO Mode	>93%			>94%												
BATTERY																
Battery Type	12V/9AH	12V/7AH/9AH	12V	12V/7AH/9AH	12V	12V/9AH	12V/7AH/9AH	12V/7AH	12V		12V/9AH	12V/7AH	12V			
Numbers	2	3	3 × N	3	3 × N	4	6	8	6 × N	8 × N	6	8	6 × N	8 × N		
Maximum Charging Current (A)	1.0		6.0/12.0		1.0		6.0/12.0		1.0		6.0/12.0		1.0		6.0/12.0	
Charging Voltage(Vdc)	27.4V ± 1%	41.1V ± 1%				54.8 ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%		
Protect	Over-voltage(14.4v) /Low-voltage(10v)															
PROTECTION																
Overload	Line Mode 105%~150%, 30s turn to bypass mode ; >150% 300ms turn to bypass mode															
	Capacity Battery Mode 105%~150%, exceed 30s shutdown ; >150% exceed 300ms shutdown															
INDICATORS																
LED & LCD Display	Load/Battery/Input/Output/Operating Mode Information															
ALARM																
Battery Mode	Sounding every 4 seconds															
Battery Low	Sounding every second															
Overload	Sounding every 0.5 second															
Fault	Continuously Sounding															
MANAGEMENT																
Smart RS-232/USB(Preferential)	External Modbus card supported by RS232,Software supports Windows Family,Linus,FreeBSD															
Intelligent Slot	SNMP (Standard or mini) independent to RS-232(Optional)															
ENVIRONMENT																
Operating Temperature	0 ~ 40℃															
Humidity Range	0 ~ 95% (Non-condensing)															
Altitude	< 1500m															
Noise Level	<50dB@ 1Meter															
PHYSICAL																
Dimension W × D × H (mm)	144 × 400 × 215						191 × 468 × 337									
Net Weight (kg)	11.3	13.7	5.9	13.9	6.2	21.9	26.9	29.6	10.6	10.8	27.4	30.1	11.1	11.3		
STANDARDS																
Safety	IEC/EN62040-1															
EMC	IEC/EN62040-2															

Specifications are subject to change without prior notice.

Battery Pack

EXB+24V&+36V&+48V&+72V

Technical Specifications

MODEL	EXB+24V	EXB+36V	EXB+48V	EXB+72V	EXB+96V
VOLTAGE	+24V	+36V	+48V	+72V	+96V
CHARGER INPUT					
Voltage Range	150~285Vac				
Frequency	50/60Hz				
Phase	Single phase with ground				
Current(A)	0.4	0.6	0.8	1.2	1.6
Protection	Resettable circuit breaker				
CHARGER OUTPUT					
Voltage (Vdc)	27.4±0.3	41.1±0.6	54.8±0.6	82.2±0.9	109.6±1.5
Current(A)	2A(Max)				
Protection	Fuse				
BATTERY					
Battery Type	12V 7AH/9AH; Sealed Valve Regulated Lead-Acid Battery (VRLA) ;Maintenance free				
Battery numbers per string	2	3	4	6	8
Battery string number	2				
Recharge time	8 hours to 90% capacity				
Protection	60A fast fuse				
Leakage current	<100uA				
PHYSICAL					
Dimension W × D × H (mm)	144 × 400 × 215		191 × 468 × 337		
Net Weight (kg)	13.3	18.5	30.2	35.5	45.8
INDICATORS					
LED Panel	Charging LED, Battery testing LED				
ENVIRONMENT					
Operating Temperature	0 ~ 40℃				
Humidity Range	0 ~ 90% (Non-condensing)				
Noise Level	<40dB@ 1Meter				
STANDARDS					
Safety	IEC/EN62040-1				
EMC	IEC/EN62040-2				

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