

-Data Center Product Line -

**KSTAR Classic Tower & Convertible UPS Series** 



CONTACT Tel: +86-755-86169858 Fax: +86-755-86168482 E-mail: sales@kstar.com

**HEADQUARTERS**Add: 4/F, No.1 Bldg.Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone, Shenzhen 518057, P.R.China

Add: Kstar Industrial Park, Guangming Hi-Tech Industrial Zone, Shenzhen, P.R.China Add: Kstar Industrial Park, Fumin Industrial Zone, Guanlan Town, Shenzhen, P.R.China Add: Kstar Industrial Park, Zhongkai Hi-Tech Industrial Zone, Huizhou, P.R. China Add: CATL-KSTAR, XiaPu Economic Development Zone, FuJian, P.R. China Add: Kstar Industrial Park, Yifeng County Industrial Park, Yichun, Jiangxi, P.R. China Add: Kstar (Vietnam) Co., Ltd, in Anyang County, Haiphong City, Vietnam



# UA Series 0.4~2kVA 1:1phase PF:0.6



### **Features**

- · AVR boost and buck
- · Cold start function
- · Smart RS-232/USB interface for power management
- · Built-in self-diagnostic function

-Line interactive UPS-

- · Modem/LAN internet protection
- · Generator compatible(Optional)
- $\cdot$  LCD or LED panel for option
- · Fast charging capacity
- Auto charging at off modeAuto restart while AC is recovering

Optional socket







Two kinds of color LCD display

LED display

- 1. AC input
- 2. Output socket
- 3. USB & RJ11 communication
- 4. USB & RS232 communication 5. RJ45



Rear Panel

# **Technical Specifications**

Model	UA40	UA60	UA80	UA100	UA120	UA150	UA200			
Capacity(VA/Watts)	400 / 240	600 / 360	800 /480	1000 / 600	1200 / 720	1500 / 900	2000 / 1200			
INPUT	1				I		l			
Nominal Input Voltage			110/12	0 Vac or 220/230/2	40 Vac					
Operating Voltage Range		81~145 Vac / 162~290 Vac								
Operating Frequency Range				50/60 Hz (1 ± 10%)	)					
OUTPUT										
Output Voltage range (Batt. Mode)			Simulated Sin	ewave at nominal	voltage ± 10%					
Frequency Range (Batt. Mode)			5	0 Hz or 60 Hz ±1 H	·lz					
Transfer Time			Турі	cal 2~6 ms, 10ms	max.					
BATTERY	1				1		ı			
Battery Type & Number	12 V / 4.5 Ah x 1	12 V / 7Ah x 1	12 V / 9 Ah x 1	12 V / 7 Ah x 2	12 V / 7 Ah x2	12 V /9 Ah x 2	12 V / 9 Ah x			
Typical Recharge time			6~8 h	ours (To 90% cap	pacity)					
PROTECTION	1									
Full Protection			Overload	and overcharge pr	otection					
INDICATORS	1									
LED ( LED version )			AC Mode, Batte	ry Mode, Load Lev	el, Battery Level					
LCD (LCD version)	AC Mode	e, Battery Mode, Lo	oad Level, Battery Le	evel, Input Voltage,	Output Voltage, Ov	erload, Fault, Batter	ry Low			
ALARM	1									
Battery Mode			Sour	nding every 10 sec	onds					
Battery Low			Sc	ounding every seco	nd					
Overload			Sou	nding every 0.5 sea	cond					
Battery Replacement Alarm			Sou	ınding every 2 seco	onds					
Fault			C	ontinuously soundi	ng					
MANAGEMENT	1									
USB & RS-232 port (Optional)		Supports W	/indows* 2000/2003/	XP/Vista/2008, Wi	ndows® 7, Linux, Un	ix, and MAC				
ENVIRONMENT	1									
Operating Temperature				0~40℃						
Humidity Range			0~9	5 % (Non-condens	sing)					
Noise Level			<40d	B (1 meter from su	rface)					
PHYSICAL	1									
Dimension, W×D×H (mm)		101×298×142	_	149.3×3	338 × 162	158 × 38	80 × 198			
Net Weight (kg)	3.55	4.25	4.9	7.8	8	11.1	11.5			
STANDARDS	' I		1		'		1			
Safety			IEC/EN	162040-1;IEC/EN6	0950-1					
EMC	IEC/EN62	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8								

Specifications are subject to change without prior notice.



- · AVR boost and buck
- · Cold start function
- · Smart RS-232/USB interface for power management
- · Built-in self-diagnostic function
- · Modem/LAN internet protection
- · Generator compatible(Optional)
- · Fast charging capacity
- · Auto charging at off mode
- · Auto restart while AC is recovering



Optional socket





#### Two kinds of color LCD display

- 1. AC input
- 2. Output socket
- 3. USB & RJ11 communication
- 4. USB & RS232 communication



Rear Panel

# **Technical Specifications**

Model	UA240	UA300					
Capacity(VA/Watts)	2400 / 1440	3000 / 1800					
INPUT							
Nominal Input Voltage	220/230/	/240 Vac					
Operating Voltage Range	162~29	90 Vac					
Operating Frequency Range	50/60 Hz (1 ± 10%)						
OUTPUT							
Output Voltage Range (Batt. Mode)	Simulated Sinewave at	nominal voltage ± 10%					
Frequency Range (Batt. Mode)	50 Hz or 60 Hz ± 1 Hz						
Transfer Time	Typical 2-6 m	ns, 10ms max.					
BATTERY							
Battery Type & Number	12 V / 7 Ah × 4	12 V / 9 Ah x 4					
Typical Recharge Time	6~8 hours ( To	90% capacity)					
PROTECTION							
Full Protection	Overload and over	rcharge protection					
INDICATORS							
LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Inpu	ut Voltage, Output Voltage, Overload, Fault, Battery Low					
ALARM							
Battery Mode	Sounding eve	ry 10 seconds					
Battery Low	Sounding ex	very second					
Overload	Sounding eve	ry 0.5 second					
Battery Replacement Alarm	Sounding eve	ery 2 seconds					
Fault	Continuous	ly sounding					
MANAGEMENT							
USB & RS-232 Port(Optional)	Supports Windows® 2000/2003/XP/Vista/	2008, Windows® 7, Linux, Unix, and MAC					
ENVIRONMENT							
Operating Temperature	0~4	0°C					
Humidity Range	0~95% (Non-	-condensing)					
Noise Level	<40dB (1 mete	er from surface)					
PHYSICAL							
Dimension, W×D×H (mm)	144×43:	2.5×207					
Net Weight (kg)	20	23					
STANDARDS							
Safety	IEC/EN62040-1	;IEC/EN60950-1					
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3	3;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8					

Specifications are subject to change without prior notice.



- · 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



(Optional)



1.5K:36Vdc 2K:48/72/96Vdc 3K:72/96Vdc



Control Panel Up to 50 items set by LCD





Rear Panel

# **Technical Specifications**

MODEL		UB10-24	UB10	UB10L	UB15	UB15L	UB20-48	UB20	UB20-96	UB20L UB20	L-96 U	B30 I	UB30-96	UB30L	UB30L-9
Capacity (\	/A/Watts)	100	00VA/90	)W	1500VA	V1350W		200	0VA/180	W00			3000VA	/2700W	
INPUT							·								
Nominal Vo	oltage						208/22	0/230/24	0Vac(L+	N+PE)					
	Voltage Range	110~30	00Vac @(	0~60%)	Load;120	~300Vac			•	/ac @(70~80%	6)Load;1	60~30	0Vac@	(80~1009	%)Load
	rating Frequency Range						_ ,			Iz Auto Sensi					
Power Fac	0 , , 0		>0	.85@25	%Load:>					;>0.99 @ Nom		age&	100%Lc	ad	
OUTPUT				.00@20	702000,	0,00 @0	0,02000,	0,07 @ 7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 0,00 @ 11011		.0.9001	,00,020		
Output Volt	tane					2	208/220/2	30/240\/a	ac:230\/a	ac(Default)					
Power Fac							100/220/2	0.		ao(Doladit)					
Voltage Re								± 1							
V Ollage Tite	Synchronized Range					15~55Hz	+ 0 02H-			lz ± 0.02Hz@(	60Hz				
Fraguanau	-					+555112	± 0.02Hz	.W 30HZ,	55-051	12 ± 0.02112@1	OUFIZ				
rrequericy	Battery Mode & None Synchronized Range							$(50/60 \pm$	0.02)Hz						
Crest Facto								3:	1						
							·	3% with		ad					
Harmonic [	Distortion (THDv)							6 with nor							
Waveform								Pure Sir							
Transfer Ti	me					Litility to	Ratten/:			ass: 4ms(Typ	ical)				
EFFICIEN						Othinty to	Dattery.	J1113, Otilii	ту то Бур	азэ. <del>ч</del> ттэ(тур	icai)				
AC Mode	101		88%			3%	1		89%		1		90	10/	
	do	0.40/	85	0/	_	5%	85%			 6%	_		87		
Battery Mo		84%		70	00	J 70	00%						0/	70	
ECO Mode			>93%						>9	4%					
BATTERY					I		I			1	1				
Battery Typ	oe		12V/7AH/9AH	12V	12V/7AH/9AH		12V/9AH	12V/7AH/9AH	12V/7AH	12V		_	12V/7AH		2V
Numbers		2	3	3×N	3	3×N	4	6	- 8	6×N 8×		6	8	6×N	8×N
	Charging Current (A)	1.	0	6.0/12.0	1.0	6.0/12.0		1.		6.0/			1.0		6.0/12
	/oltage(Vdc)	27.4V±1%		41.1\	/±1%		54.8 ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V±1% 109.6V	/±1% 82.2	V±1% 1	09.6V ± 1%	82.2\	V ± 1%
109.6V±1%															
Protect	ı					0,	ver-volta	ge(14.4v)	/Low-v	oltage(10v)					
PROTECT															
Overload	Line Mode			1	05~150%	6, 30s tur	n to bypa	ss mode	; >150%	300ms turn to	bypass	s mode	Э		
Capacity	Battery Mode				105~15	0%, exce	eed 30s s	nutdown ;	; >150%	exceed 300m	ns shutd	lown			
INDICATO	DRS														
LED & LCD	O Display					Load/Bat	tery/Input	/Output/C	Operating	g Mode Inform	ation				
ALARM															
Battery Mo	de						Sour	nding eve	ry 4 seco	onds					
Battery Lov	N						So	unding ev	ery seco	ond					
Overload							Sour	nding eve	ry 0.5 se	cond					
Fault							Co	ntinuousl	y Sound	ing					
MANAGE	MENT									J					
	232/USB(Preferential)		Ext	ernal Mo	odbus car	rd suppor	ted by RS	S232.Soft	ware su	pports Windov	vs Famil	lv.Linus	s.FreeB	SD	
	LOLI GOD (I TOTOTOTICO)			0111011110			-			to RS-232(O		.,,	0,1 1002	-	
	Slot				01	vivii (Ota	riadi a or	11111) 11100	portaorit	10 110 202(0	ptioridi)				
Intelligent S															
Intelligent S ENVIRON	IMENT							0~1	in°c						
Intelligent S ENVIRON Operating	IMENT Temperature						0~0	0~4		cina)					
Intelligent S ENVIRON Operating Humidity R	IMENT Temperature						0~9	5% (Non-	-conden	sing)					
Intelligent S ENVIRON Operating Humidity R Altitude	IMENT Temperature ange						0~9	5% (Non-	-conden 00m	sing)					
Intelligent S ENVIRON Operating Humidity R Altitude Noise Leve	IMENT Temperature ange						0~9	5% (Non-	-conden 00m	sing)					
Intelligent S ENVIRON Operating Humidity R Altitude Noise Leve	IMENT Temperature ange				J		0~9	5% (Non-	-conden 00m						
Intelligent S ENVIRON Operating Humidity R Altitude Noise Leve PHYSICA Dimension	Temperature ange  L W×D×H (mm)			× 400 × 2				5% (Non- < 150 <50dB@	-conden 00m 1Meter	191	×468×3				
Intelligent S ENVIRON Operating Humidity R Altitude Noise Leve PHYSICA Dimension Net Weight	Temperature ange  L W×D×H (mm) t (kg)	11.3	144 13.7	×400×2 5.9	15 13.9	6.2	0~9	5% (Non-	-conden 00m			337   7.4	30.1	11.1	11.3
Intelligent S ENVIRON Operating Humidity R Altitude Noise Leve PHYSICA Dimension	Temperature ange  L W×D×H (mm) t (kg)	11.3				6.2		5% (Non- < 150 <50dB@	-conden 00m 1Meter	191			30.1	11.1	11.3

Specifications are subject to change without prior notice.



# **Technical Specifications**

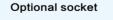
MODEL	EXB+24V	EXB+36V	EXB+48V	EXB+72V	EXB+96V
VOLTAGE	+24V	+36V	+48V	+72V	+96V
CHARGER INPUT					
Voltage Range			150~285Vac		
Frequency			50/60Hz		
Phase			Single phase with groun	nd	
Current(A)	0.4	0.6	0.8	1.2	1.6
Protection			Resettable circuit break	er	
CHARGER OUTPUT					1
Voltage (Vdc)	$27.4 \pm 0.3$	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/9	AH; Sealed Valve Regu	ulated Lead-Acid Batter	y (VRLA) ;Maintenan	ce free
Battery numbers per string	2	3	4	6	8
Battery string number			2		
Recharge time			8 hours to 90% capacity	У	
Protection			60A fast fuse		
Leakage current			<100uA		
PHYSICAL			1		
Dimension W×D×H (mm)	144×40	00×215		191×468×337	
Net Weight (kg)	13.3	18.5	30.2	35.5	45.8
INDICATORS					1
LED Panel		Charg	ging LED, Battery testing	J LED	
ENVIRONMENT					
Operating Temperature			0~40℃		
Humidity Range		0	~90% (Non-condensin	g)	
Noise Level			<40dB@ 1Meter		
STANDARDS					
Safety			IEC/EN62040-1		
EMC			IEC/EN62040-2		

Specifications are subject to change without prior notice.

#### **Features**

- · True double-conversion
- · Rack-mounted and floor-standing tower can be convertible
- · Patented Mimic LCD of which content can be rotated according to the type of deployment
- · Digital control guarantees high reliability
- · Output receptacle control for non-critical load shedding capability
- · ECO mode operation for energy saving
- · 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







Multifunctional bracket



Easy for maintenance, hot-swappable battery



Rear Panel



# **Technical Specifications**

MODEL		UBR10	UBR10-36	UBR10L	UBR10L-36	UBR15	UBR15L	UBR20	UBR20-72	UBR20L	UBR20L-72	UBR30	UBR30L
Capacity (\	/A/Watts)		1000VA/9	00W		1500VA	/1350W		2000VA	/1800W		3000VA	V2700W
INPUT	,	ļ				1		I					
Nominal Vo	oltage					208/2	220/230/24	10Vac(L+N	+PE)				
	Voltage Range	110-	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load									b)Load	
	Frequency Range			,					Auto Sen				,
Power Fac			> 0.8	5@25%Lc					0.99 @ No		age& 1009	%Load	
OUTPUT		l		- (	,		,				-9		
Output Vol	tage		208/220/230/240Vac:230Vac(Default)										
Power Fac	_=		0.9										
Voltage Re			± 1%										
	Synchronized Range		45~55Hz ±0.02Hz@ 50Hz, 55~65Hz ±0.02Hz@60Hz										
Frequency	Battery Mode & None		43~33HZ ±0.02HZ@ 30HZ, 35~03HZ ±0.02HZ@00HZ										
rroquerioy	Synchronized Range		$(50/60 \pm 0.02)$ Hz										
Crest Factor	or						3	:1					
Llamania [	Distantian (TLID: )						≤3% with	linear load					
Harmonic L	Distortion (THDv)					<b>≤</b> {	5% with no	n-linear lo	ad				
Waveform							Pure S	newave					
Transfer tir	ne				Utility	to Battery	: 0ms; Util	ity to Bypas	ss: 4ms(Ty	pical)			
EFFICIEN	ICY												
AC Mode			88	3%		88	1%		89	%		90	)%
Battery Mo	ode	84%	85%	84%	85%	85	5%	85%	86%	85%	86%	87	7%
ECO Mode			-			-	94	1%					
BATTERY	1	I											
Battery Typ	oe	12V/9AH	12V/7AH	1	2V	12V/9AH	12V	12V/9AH	12V/7AH	1:	2V	12V/9AH	12V
Numbers	'	2	3	2×N	3×N	3	3×N	4	6	4×N	6×N	6	6×N
Maximum (	Charging Current (A)	1.0	1.0	6.0	/12.0	1.0	6.0/12.0	1.0	1.0	6.0/	12.0	1.0	6.0/12.0
	' '		41.1 ± 1%				41.1 ± 1%		± 1% 82.2				82.2±1%
Protect								/ Low-volt					
PROTECT	TION	ļ.					,						
Overload	Line Mode			105~	150%, 30s	turn to by	ass mode	: >150% 3	00ms turn	to bypass	mode		
Capacity	Battery Mode							-	exceed 300				
INDICATO	-	I											
LED & LCI	O Display				Load/l	Battery/Inp	ut/Output/	Operating N	Mode Inforr	mation			
ALARM	, ,					, ,		1 3					
Battery Mo	ode					So	undina eve	ery 4 secon	ıds				
Battery Lov								very secon					
Overload								ery 0.5 seco					
Fault							Continuous	ly Soundin	a				
MANAGE	MENT							,	J				
Smart RS-	-232/USB(Preferential)		Exten	nal Modbu	s card sup	ported by F	RS232.Sof	tware supr	orts Windo	ows Famil	v.Linus.Fre	eeBSD	
Intelligent S	, ,								RS-232(		, ,		
ENVIRON		ļ											
	Temperature						0~	40℃					
Humidity R						0~		-condensi	na)				
Altitude								00m,	9)				
Noise Leve	 el							n 1Meter					
PHYSICA		I						,					
								440×572	440×696			440×696	440×572
	W×D×H (mm)		I .	I	<430×86.	1		×86.5	×86.5		72×86.5	×86.5	×86.5
Net Weight	, =/	13.2	15.7	7.7	7.8	15.8	7.9	21.5	27.6	10.7	10.8	28.5	11.2
STANDAR	RDS												
Safety								62040-1					
EMC		I					IEC/EN	62040-2					

Specifications are subject to change without prior notice.

# **Technical Specifications**

MODEL	EXBR+24V	EXBR+36V	EXBR+48V	EXBR+72V
/OLTAGE	+24V	+36V	+48V	+72V
CHARGER INPUT				
Voltage Range		150~2	285Vac	
Frequency		50/6	60Hz	
Phase		Single phase	e with ground	
Current(A)	0.4	0.6	0.8	1.2
Protection		Resettable o	circuit breaker	
CHARGER OUTPUT				
Voltage (Vdc)	27.4 ± 0.3	41.1 ± 0.6	54.8 ± 0.6	82.2±0.9
Current(A)		2A(	Max)	
Protection		Fu	use	
BATTERY				
Battery Type	12V 7AH/9AH	; Sealed Valve Regulated Le	ad-Acid Battery (VRLA);Ma	intenance free
Battery numbers per string	2	3	4	6
Battery string number			2	
Recharge time		8 hours to 9	90% capacity	
Protection		60A fa	ast fuse	
Leakage current		<10	00uA	
PHYSICAL				
Dimension W × D × H (mm)	440×43	80×86.5	440×572×86.5	440 × 696 × 86.5
Net Weight (kg)	17.3	22.3	28.4	40.8
INDICATORS				
LED Panel		Charging LED, B	attery testing LED	
ENVIRONMENT				
Operating Temperature		0~	40℃	
Humidity Range		0~90% (Nor	n-condensing)	
Noise Level		<40dB@	0) 1Meter	
STANDARDS				
Safety		IEC/EN	62040-1	
EMC		IEC/EN	62040-2	

Specifications are subject to change without prior notice.



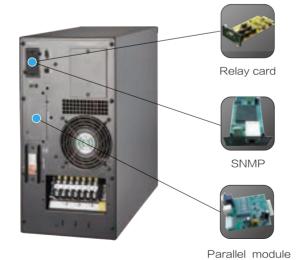
- · True double-conversion
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- · Selectable quantity of battery for each group:16/18/20 pieces
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · Emergency power off function (EPO)
- · Maintenance bypass (Optional) is convenient for maintenance
- · Generator compatible
- · Communications:RS-232,USB,SNMP card (Optional), Relay card (Optional)
- · Cold start







Control Panel



Rear Panel

# **Technical Specifications**

	UB100L							
Norman								
Disparating Proquency Range								
Disparating Proquency Range								
Diporating Prougency Range								
2009   Markvoltage: 2201- x-25% (Optional +10%, +15%, +20% )								
Max.voltage: 200%; 425% (Optional +107%, +15%, 200%)   230%; +20% (Optional +107%, +15%)   230%; +20% (Optional +10%, +15%)   230%; +20% (Optional +10%, +15%)   230%; +20% (Optional +10%, +15%)   230%; -20% (Optional +10%, +15%)   230%; -30%   230%; +15% (Optional +10%, +15%)   230%; -30%; -30%; -30								
Page								
240V; + 15%(Optional +10%)								
Min. voltager = 45% (Optional = 20%, -30%)   ECO Range   Same as bypass								
Same as bypass								
Hammonic Distortion (THDI)								
OUTPUT         OUTput Votage         220/230/240Vac           Power Factor         0.9           Votage Regulation         ± 1% ± 2% ± 4% ± 5% ± 15% of the rated frequency (Optional)           Frequency         Line Mode         ± 1% ± 2% ± 4% ± 5% ± 15% of the rated frequency (Optional)           Frequency         Line Mode         (50/60 ± 0.1)±2           Crest Factor         3.1								
Duty to Voltage								
Power Factor								
1								
Line Mode   ±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)								
Crest Factor   Sat.   Mode   Crest Factor   Sat.								
Batt.Mode   (50/00 ± 0.1)Hz								
Harmonic Distortion (THDv)								
Section   Communication   Communication   Complex suppression								
S								
Transfer Time								
Transfer Time								
Efficiency								
Selectable Voltage								
## Selectable Voltage								
Selectable Voltage: ± 96/108/120Vdc								
Typical Recharge Time 6-8 hours (To 90% capacity)  Charging Current								
Charging Current         Maximum current 10A           PROTECTION         Line Mode         Load≤125%: last 5min;≤150%: last 1min;>150% 200ms turn to bypass mode           Bypass Mode         40A(Input breaker)         60A(Input breaker)           Short Circuit         Hold Whole System           Overheat         Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately           Battery Low         Alarm and Switch off           INDICATORS         Audible & Visual Alarms         Line Failure, Battery Low, Overload, System Fault           Status LED & LCD Display         Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault           Parameters On The LCD Panel         Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Battery Battery Battery Battery Level, Inner Temperature & Remaining Battery Batter	-							
PROTECTION Overload  Line Mode Bypass Bypass Mode Byp								
Overload         Line Mode Bypass Mode         Load≤125%: last 5min;≤150%: last 1min; > 150% 200ms turn to bypass mode           Short Circuit         Hold Whole System           Overheat         Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately           Battery Low         Alarm and Switch off           INDICATORS         Audible & Visual Alarms           Audible & Visual Alarms         Line Failure, Battery Low, Overload, System Fault           Status LED & LCD Display         Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault           Parameters On The LCD Panel         Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Bad           MANAGEMENT         RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)           ENVIRONMENT         0 ~ 40°C           Storage Temperature         0 ~ 40°C           Storage Temperature         0 ~ 95% (Non-condensing)           Altitude         < 1500m	Maximum current 10A							
Bypass Mode								
Short Circuit  Overheat  Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately  Battery Low  Alarm and Switch off  INDICATORS  Aduible & Visual Alarms  Status LED & LCD Display  Parameters On The LCD Panel  Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Battery Low, Overload, System Fault  Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Battery Level, Inner Temperature	Load≤125%: last 5min;≤150%: last 1min;>150% 200ms turn to bypass mode							
Diverheat  Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately  Alarm and Switch off  INDICATORS  Audible & Visual Alarms  Line Failure, Battery Low, Overload, System Fault  Status LED & LCD Display  Parameters On The LCD Panel  Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Ba								
Battery Low INDICATORS Audible & Visual Alarms Line Failure, Battery Low, Overload, System Fault Status LED & LCD Display Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault Parameters On The LCD Panel Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Bad MANAGEMENT Communication Interface RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional) ENVIRONMENT Operating Temperature 0 ~ 40°C Storage Temperature 0 ~ 95% (Non-condensing) Altitude < 1500m Noise Level  \$55dB PHYSICAL Dimension W × D × H (mm) 250 × 502 × 616 220 × 481 × 438 250 × 502 × 616 220 × 4 2								
Audible & Visual Alarms  Line Failure, Battery Low, Overload, System Fault  Status LED & LCD Display  Parameters On The LCD Panel  Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Batt	·							
Audible & Visual Alarms  Line Failure, Battery Low, Overload, System Fault  Status LED & LCD Display  Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Bad, Overload & UPS Fault  Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery	The state of the s							
Status LED & LCD Display  Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery	/ Harri and Official							
Status LED & LCD Display  Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Bad MANAGEMENT  Communication Interface  RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)  ENVIRONMENT  Operating Temperature  O ~ 40°C  Storage Temperature  O ~ 95% (Non-condensing)  Altitude  < 1500m  Noise Level  PHYSICAL  Dimension W × D × H (mm)  250 × 502 × 616  220 × 481 × 438  250 × 502 × 616  220 × 481 × 438  STANDARDS  Noise Suppression  Complies with EN62040-2  Safety  IEC/EN62040-1,IEC/EN60950-1  IEC/EN62040-2,IEC61000-4-3,IEC61000-4-4,	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault							
Parameters On The LCD Panel   Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery								
MANAGEMENT         RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)           ENVIRONMENT         O ~ 40°C           Storage Temperature         0 ~ 40°C           Storage Temperature         -25 ~ 55°C           Humidity Range         0 ~ 95% (Non-condensing)           Altitude         < 1500m           Noise Level         < 55dB           PHYSICAL           Dimension W × D × H (mm)         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 4           Net Weight (kg)         62         18         64         2           STANDARDS         Complies with EN62040-2         Safety         IEC/EN62040-1,IEC/EN60950-1           EMC         IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-3,IEC61000-4-4,								
Communication Interface         RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)           ENVIRONMENT         O ~ 40°C           Storage Temperature         0 ~ 40°C           Storage Temperature         -25 ~ 55°C           Humidity Range         0 ~ 95% (Non-condensing)           Altitude         < 1500m           Noise Level         <55dB           PHYSICAL           Dimension W × D × H (mm)         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 4           Net Weight (kg)         62         18         64         2           STANDARDS           Noise Suppression         Complies with EN62040-2           Safety         IEC/EN62040-1,IEC/EN60950-1           IEMC         IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,	прииоцри: voltage, прииоцри: Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Васкир Тime							
ENVIRONMENT         0 ~ 40 °C           Storage Temperature         0 ~ 40 °C           Storage Temperature         -25 ~ 55 °C           Humidity Range         0 ~ 95% (Non-condensing)           Altitude         < 1500m	RS-232 LISR Parallel card(Ontional), SNIMP card(Ontional), Relay card (Ontional)							
Operating Temperature         0~40°C           Storage Temperature         -25~55°C           Humidity Range         0~95% (Non-condensing)           Altitude         < 1500m	RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)							
Storage Temperature								
Humidity Range 0 - 95% (Non-condensing)  Altitude < < 1500m  Noise Level								
Altitude < 1500m  Noise Level								
Noise Level <a href="#"></a>								
PHYSICAL           Dimension W × D × H (mm)         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 481 × 438         44         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         200 × 481 × 438         250 × 502 × 616         200 × 481 × 438								
Dimension W × D × H (mm)         250 × 502 × 616         220 × 481 × 438         250 × 502 × 616         220 × 4481 × 438         250 × 502 × 616         220 ×								
Net Weight (kg) 62 18 64 2  STANDARDS  Noise Suppression Complies with EN62040-2  Safety IEC/EN62040-1,IEC/EN60950-1  EMC IEC/EN62040-2,IEC61000-4-3,IEC61000-4-4,								
STANDARDS           Noise Suppression         Complies with EN62040-2           Safety         IEC/EN62040-1,IEC/EN60950-1           EMC         IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,	20×481×438							
Noise Suppression         Complies with EN62040-2           Safety         IEC/EN62040-1,IEC/EN60950-1           EMC         IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,	20							
Safety IEC/EN62040-1,IEC/EN60950-1 EMC IEC/EN62040-2,IEC61000-4-3,IEC61000-4-4,								
IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,	Complies with EN62040-2							
IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,								
EMC								
BATTERY PACK								
Model EXB±120V								
Battery type & Max.quantity 7Ah × 40/9Ah × 40								
Dimensions W × D × H (mm) 250 × 502 × 616								
Net Weight (kg) 125.6/138								

Specifications are subject to change without prior notice.





- · True double-conversion
- · Rack-mounted and floor-standing tower can be convertible
- · Patented Mimic LCD of which content can be rotated according · Emergency power off function(EPO) to the type of deployment
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- Selectable quantity of battery for each group:16/18/20 pieces
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · Optional PDU can be used as external maintenance bypass
- · Generator compatible
- · Communications:RS-232,USB,SNMP card (Optional), Relay card (Optional)



Control Panel



Battery Cabinets (Optional)



Rack-Tower convertible Two directions LCD display



Rear Panel

# **Technical Specifications**

MODEL		UBR60L	UBR100L					
Capacity (VA	/Watts)	6K / 5.4K	10K/9K					
INPUT		· ·						
Nominal Volta	age	220/230/240\	/ac(L+N+PE)					
Operating Vo	oltage Range	120~2	76Vac					
Operating Fre	equency Range	50Hz: 45~55Hz,	60Hz: 54~66Hz					
Power Factor	r	≥0	.99					
		Max.voltage: 220V: +25%(C	Optional +10%,+15%,+20% )					
Dunaga Valta	an Donan	230V: +20%(Opti	onal +10%,+15%)					
Bypass Volta	ige Range	240V: +15%(Optional +10%)						
		Min. voltage: -45% (Optional -20%,-30%)						
ECO Range		Same as	bypass					
Harmonic Dis	stortion (THDi)	≤5%(100% no	n-linear load)					
OUTPUT								
Output Voltag	ge	220/230/	240Vac					
Power Factor	r	0.	9					
Voltage Regu	ulation	±1	%					
	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% o	of the rated frequency(Optional)					
Frequency	Bat. Mode	(50/60 ±						
Crest Factor	1	3:						
		≤2% with						
Harmonic Dis	stortion (THDv)	≤5% with nor						
Waveform		Pure Sir						
Transfer Time	e.	Utility to Battery : 0ms;						
EFFICIENC'		Culty to Battory . orno,	ounty to Dypasos. Onto					
Efficiency	•	Up to	94%					
BATTERY		op to	0170					
Battery Voltag	ne	Optional Voltage:	+ 96/108/120Vdc					
Typical Rech	-							
Charging Cur		6~8 hours (To 90% capacity)  Maximum current 10A;						
		Washian Carent 107 g						
PROTECTION		1000 1 15 1 1000 1 1 1 1000 1 1 1 1 1 1						
INOILOIR	Line Mode	I nad≤125% last 5min ≤150% last 1m	in: > 150% 200ms turn to bypass mode					
	Line Mode  Bypass Mode	Load≤125%: last 5min;≤150%: last 1m	**					
Overload	Line Mode Bypass Mode	40A(Input breaker)	60A(Input breaker)					
Overload Short Circuit		40A(Input breaker) Hold Whol	60A(Input breaker) e System					
Overload Short Circuit Overheat		40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Васкця	60A(Input breaker) le System o Mode: Shut down UPS immediately					
Overload Short Circuit Overheat Battery Low	Bypass Mode	40A(Input breaker) Hold Whol	60A(Input breaker) le System o Mode: Shut down UPS immediately					
Overload Short Circuit Overheat Battery Low INDICATOR	Bypass Mode	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup  Alarm and	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis	Bypass Mode  RS sual alarms	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup  Alarm and  Line Failure, Battery Low	60A(Input breaker) le System la Mode: Shut down UPS immediately Switch off Overload, System Fault					
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8	Bypass Mode  RS  Sual alarms  & LCD Display	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup  Alarm and  Line Failure, Battery Low  Line Mode, Backup Mode, Eco Mode, Bypass Mode	60A(Input breaker) le System la Mode: Shut down UPS immediately Switch off la Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7	Bypass Mode  RS  sual alarms  & LCD Display  The LCD Display	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup  Alarm and  Line Failure, Battery Low	60A(Input breaker) le System la Mode: Shut down UPS immediately Switch off la Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On T	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup  Alarm and  Line Failure, Battery Low  Line Mode, Backup Mode, Eco Mode, Bypass Mode	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off le Overload, System Fault le Battery Low, Battery Bad, Overload & UPS Fault le Battery Low, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT emperature	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off le Overload, System Fault le Battery Low, Battery Bad, Overload & UPS Fault le Battery Low, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT emperature iperature	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off le Overload, System Fault le Battery Low, Battery Bad, Overload & UPS Fault le Battery Low, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT emperature iperature	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT emperature iperature	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off c, Overload, System Fault e, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time eard(Optional), Relay card (Optional)  10°C 155°Ccondensing)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT emperature iperature	40A(Input breaker)  Hold Whol Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off c, Overload, System Fault e, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time eard(Optional), Relay card (Optional)  10°C 155°Ccondensing)					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communication ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IEENT Imperature Iperature Inge	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 < 55	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off c, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) locc 555°C -condensing) 00m idB					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IENT imperature ipperature ipge  (* D × H (mm)	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 ~ 0 - 95% (Non- <15 <55	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off  Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ley Level, Inner Temperature & Remaining Battery Backup Time  ard(Optional), Relay card (Optional)  OC  55°C  -condensing)  Om  idB					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On T MANAGEMI Communicating ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IJENT imperature ipperature ippera	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 < 55	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) looc 155°C -condensing) 00m idB					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On T MANAGEMI Communicatin Communicatin Environm Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IJENT imperature ipperature	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 ~ 0 - 95% (Non- <15 <55	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ley Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) lorc 55°C loondensing) loom lidB k 131 (3U) 20					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On T MANAGEMI Communicatin ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IJENT imperature ipperature	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 <55  443 × 580 s	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off  (Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional)  10°C 55°Ccondensing)  00m  1dB  1131 (3U)  20					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On T MANAGEMI Communicatin ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IJENT imperature ipperature	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 <55  443 × 580 s  19  Complies with IEC/EN62040-1,	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) looc 555°Ccondensing) 00m lidB k 131 (3U) 20 le EN62040-2 IEC/EN60950-1					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communication ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL	Bypass Mode  RS sual alarms & LCD Display The LCD Display ENT ion Interface IJENT imperature ipperature	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 < 55  443 × 580 ×  19  Complies with IEC/EN62040-1, IEC/EN62040-2,IEC61000-4-2	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) looc 555°Ccondensing) 000m lidB k 131 (3U) 20 le EN62040-2 IEC/EN60950-1 JEC61000-4-3, JEC61000-4-4,					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre Safety EMC	Bypass Mode  RS  Sual alarms  & LCD Display  The LCD Display  ENT  fron Interface  BENT  emperature  perature  nge  /*XDXH (mm)  rg)  SS  esssion	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 <55  443 × 580 s  19  Complies with IEC/EN62040-1,	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) looc 555°Ccondensing) 000m lidB le 131 (3U) 20 le EN62040-2 IEC/EN60950-1 JEC61000-4-3, JEC61000-4-4,					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre	Bypass Mode  RS  Sual alarms  & LCD Display  The LCD Display  ENT  fron Interface  BENT  emperature  perature  nge  /*XDXH (mm)  rg)  SS  esssion	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- < 15 < 55  443 × 580 ×  19  Complies with IEC/EN62040-1, IEC/EN62040-2,IEC61000-4-2	60A(Input breaker) le System lo Mode: Shut down UPS immediately Switch off lo Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time lard(Optional), Relay card (Optional) looc 555°Ccondensing) 000m lidB k 131 (3U) 20 le EN62040-2 IEC/EN60950-1 JEC61000-4-3, JEC61000-4-4, 00-4-6, JEC61000-4-8					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7  MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre Safety EMC BATTERY F Model	Bypass Mode  RS  Sual alarms  & LCD Display  The LCD Display  ENT  fron Interface  BENT  emperature  perature  nge  /*XDXH (mm)  rg)  SS  esssion	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batter  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 0 - 95% (Non- <15 <55  443 × 580:  19  Complies with IEC/EN62040-1, IEC/EN62040-2,IEC61000-4-2 IEC61000-4-5,IEC6100	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off c, Overload, System Fault e, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time eard(Optional), Relay card (Optional)  10°C 155°C 155°C 15°C 15°C 15°C 15°C 15°C					
Overload  Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On 7 MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD Noise Suppre Safety EMC BATTERY F Model Battery type8	Bypass Mode  RS  Sual alarms & LCD Display The LCD Display The LCD Display ENT Ion Interface IENT Imperature I	40A(Input breaker)  Hold Whol  Line Mode: Switch to Bypass; Backup Alarm and  Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mode Input/Output Voltage, Input/Output Frequency, Load Level, Batte  RS232,USB, Parallel Port, SNMPca  0 - 4 -25 - 0 - 95% (Non- <15 <55  443 × 580 > 19  Complies with IEC/EN62040-1, IEC61000-4-2, IEC61000-4-5, IEC61000-	60A(Input breaker) le System b Mode: Shut down UPS immediately Switch off c, Overload, System Fault e, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time eard(Optional), Relay card (Optional) eard(Optional), Relay card (Optional) eard(Optional) eard					

Specifications are subject to change without prior notice

# UC Series 10~20kVA 3:1phase PF:0.9



#### **Features**

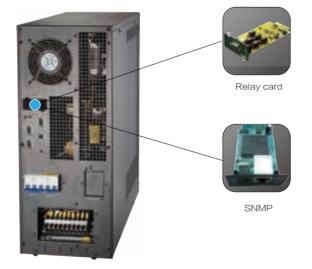
- · True double-conversion
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- · Compatible with 3 phases and single phase input
- · Selectable quantity of battery for each group:16/18/20 pieces
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · Emergency power off function(EPO)
- · Maintenance bypass is convenient for maintenance
- · Generator compatible
- Communications:RS-232,USB,Parallel card(Optional),SNMP card(Optional), Relay card (Optional) Cold start







Control Panel



Rear Panel

# **Technical Specifications**

MODEL		UC100	UC100L	UC150L	UC200L				
Capacity (VA/V	Vatts)	10K/9K		15K / 13.5K	20K / 18K				
NPUT					·				
Nominal Voltag	ge		380/400/415Vac(3Ph+N+PE)	or 220/230/240Vac(L+N+PE)					
Operating Volta	age Range	208~478Vac or 120VAC-276Vac							
Operating Free		50Hz: 45~55Hz, 60Hz: 54~66Hz							
Power Factor		≥0.99							
		Max.voltage: 220V: +25%(Optional +10%,+15%,+20%)							
Dynass \/alt==	o Pango			Optional +10%,+15%)					
Bypass Voltage	e range		240V: +15%(C						
			Min. voltage: -45% (C	· · · · · · · · · · · · · · · · · · ·					
ECO Range			Same as						
Harmonic Disto	ortion (THDi)		≤5%(100% nc	on-linear load)					
OUTPUT	·								
Rated Voltage			220/230	/240Vac					
Power Factor			0.	.9					
Voltage Regula	ation		±′	1%					
	Line Mode		± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% ;	of the rated frequency(Optional)					
Frequency	Bat. Mode		(50/60 ±						
Crest Factor			3:	· · · · · · · · · · · · · · · · · · ·					
Larmonia Di-t-	ortion (TUDy)			linear load					
Harmonic Disto	UIUUII (IPDV)		≤5% with no	n-linear load					
Waveform			Pure Sir	newave					
Transfer Time			Utility to Battery : 0ms;	Utility to Bypass: 0ms					
EFFICIENCY	,								
Efficiency		Up to 94%	,	Up to	94.5%				
BATTERY	'			·					
Battery Voltage	e	Selectable Voltage: ±96/108/120Vdc							
Typical Rechar		6~8 hours (To 90% capacity)							
Charging Curre	-	Maximum current 10A							
PROTECTION									
0	Line Mode	Load		t 1min; > 150% 200ms turn to bypas	s mode				
Overload –	Bypass Mode	63A(Input brea		100A(Input breaker)	125A(Input breaker)				
Short Circuit		Hold Whole System							
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately							
Battery Low		Alarm and Switch off							
INDICATORS	S								
Audible & Visua	al Alarms		Line Failure, Battery Low	, Overload, System Fault					
Status LED & I	LCD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault							
Status LED & LCD Display		Line Mode, Backup	ivioue, Eco ivioue, bypass iviou	e, Battery Low, Battery Bad, Overlo	au & UFS I auil				
Parameters Or	n The LCD Panel			e, Battery Low, Battery Bad, Overlo ery Level, Inner Temperature & Rem					
MANAGEMEI	NT	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte		naining Battery Backup Time				
MANAGEMEI Communication	NT n Interface	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte	ery Level, Inner Temperature & Rem	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME	NT n Interface :NT	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte	ery Level, Inner Temperature & Ren	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME Operating Tem	NT n Interface ENT nperature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe	NT n Interface NT nperature erature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C 55°C	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe Humidity Range	NT n Interface NT nperature erature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25~	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing)	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe Humidity Range Altitude	NT n Interface NT nperature erature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25- 0~95% (Non-	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m	naining Battery Backup Time				
MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe Humidity Range Altitude Noise Level	NT n Interface NT nperature erature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25- 0~95% (Non-	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m	naining Battery Backup Time ional)				
MANAGEMEI Communication ENVIRONME Operating Temporating Temporating Temporating Temporating Temporating Range Humidity Range Altitude Noise Level PHYSICAL	NT n Interface ENT nperature erature	Input/Output Voltage, Input/Outp	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25- 0~95% (Non-	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m	naining Battery Backup Time ional)				
MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe Humidity Range Altitude Noise Level PHYSICAL Dimension W×	NT n Interface ENT nperature erature ge	Input/Output Voltage, Input/Outp RS-232,t	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25- 0~95% (Non-	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Optional)  40°C  - 55°C  - condensing)  00m  < 5	naining Battery Backup Time ional)				
MANAGEMEI Communication ENVIRONME Operating Temporating Temporation Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg	NT n Interface ENT nperature erature de  D×H (mm)	Input/Output Voltage, Input/Outp RS-232,t <55dB 250 × 597 × 655	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 ~ 4  -25 ~  0 ~ 95% (Non  < 15	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Optional)  40°C  -55°C  -condensing)  00m  <5:	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Temporating Temporation Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS	NT n Interface ENT nperature erature de  VD×H (mm) 3)	Input/Output Voltage, Input/Outp RS-232,t <55dB 250 × 597 × 655	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 ~ 4  -25 ~  0 ~ 95% (Non  < 15	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Optional) 40°C -55°C -condensing) 00m <56 250 × 502 × 616 45	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Temporating Temporation Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres	NT n Interface ENT nperature erature de  VD×H (mm) 3)	Input/Output Voltage, Input/Outp RS-232,t <55dB 250 × 597 × 655	ut Frequency, Load Level, Batte  USB,Parallel card(Optional), SN  0 ~ 25 ~  0 ~ 95% (Non  < 15	ery Level, Inner Temperature & Ren MP card(Optional), Relay card (Optional) 40°C -55°C -condensing) 00m <50 250×502×616 45 n EN62040-2	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Tempore Storage Tempore Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety	NT n Interface ENT nperature erature de  VD×H (mm) 3)	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 - 4  - 25 -  0 ~ 95% (Non  < 15  35  Complies with  IEC/EN62040-1,	eny Level, Inner Temperature & Rem MP card(Optional), Relay card (Optional) 40°C -55°C -condensing) 00m <5: 250×502×616 45  n EN62040-2 JEC/EN60950-1	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Tempore Storage Tempore Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety	NT n Interface ENT nperature erature de  VD×H (mm) 3)	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 - 4  - 25 -  0 ~ 95% (Non  < 15  35  Complies with  IEC/EN62040-1,  EC/EN62040-2,IEC61000-4-2	eny Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m <5 250 × 502 × 616 45  n EN62040-2 JEC/EN60950-1 JEC61000-4-3, JEC61000-4-4,	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidify Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety EMC	NT n Interface ENT nperature erature le	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 - 4  - 25 -  0 ~ 95% (Non  < 15  35  Complies with  IEC/EN62040-1,	eny Level, Inner Temperature & Ren MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m <5 250 × 502 × 616 45  n EN62040-2 JEC/EN60950-1 JEC61000-4-3, JEC61000-4-4,	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Tempore Storage Tempore Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety EMC BATTERY PA	NT n Interface ENT nperature erature le	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25~  0~95% (Non  < 15  35  Complies with  IEC/EN62040-1,  EC/EN62040-2,IEC61000-4-2  IEC61000-4-5,IEC610	eny Level, Inner Temperature & Rem MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m <55 250 × 502 × 616 45  n EN62040-2 JEC/EN60950-1 JEC61000-4-3, JEC61000-4-4, 00-4-6, JEC61000-4-8	naining Battery Backup Time ional)  8dB				
MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety EMC BATTERY PA Model	NT n Interface ENT nperature erature le  CD×H (mm) 3) Sission	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0 - 2  -25 ~  0 ~ 95% (Non  < 15  35  Complies with  IEC/EN62040-1,  EC/EN62040-2,IEC61000-4-2  IEC61000-4-5,IEC6100  EXB±	eny Level, Inner Temperature & Rem MP card(Optional), Relay card (Opt 40°C -55°C -condensing) 00m <55 250 × 502 × 616 45 n EN62040-2 JEC/EN60950-1 JEC61000-4-3, JEC61000-4-4, 00-4-6, JEC61000-4-8	naining Battery Backup Time ional)  8dB				
Parameters Or MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidity Rang Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety EMC BATTERY PA Model Battery type& Dimensions W >	NT n Interface ENT nperature erature le   CD×H (mm)  SS ssion  ACK  Max.quantity	Input/Output Voltage, Input/Outp  RS-232,I  <55dB  250 × 597 × 655  76	ut Frequency, Load Level, Batte  JSB,Parallel card(Optional), SN  0-4  -25~  0~95% (Non  < 15  35  Complies with  IEC/EN62040-1,  EC/EN62040-2,IEC61000-4-2  IEC61000-4-5,IEC610	eny Level, Inner Temperature & Rem MP card(Optional), Relay card (Optional) 40°C -55°C -condensing) 00m <55 250 × 502 × 616 45  n EN62040-2 JEC6/EN60950-1 JEC61000-4-3, JEC61000-4-4, 00-4-6, JEC61000-4-8 = 120V //9Ah × 40	naining Battery Backup Time ional)  8dB				

 $<sup>\</sup>cdot \ \, \text{Output factor is changed when selecting different battery quantity. 16PCS:} 0.7; 18PCS:0.8; 20PCS:0.9;$ 

<sup>·</sup> Specifications are subject to change without prior notice.

# -Online Rack-tower UPS-UCR Series 6~10kVA 3:1phase PF:0.9



### **Features**

- · True double-conversion
- · Rack-mounted and floor-standing tower can be convertible
- Patented Mimic LCD of which content can be rotated according to the type of deployment
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- · Compatible with 3 phases and single phase input
- · Selectable quantity of battery for each group:16/18/20 pieces
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · Emergency power off function(EPO)
- $\cdot\;$  Optional PDU can be used as external maintenance bypass
- · Generator compatible
- Communications:RS-232,USB,SNMP card(Optional), Relay card (Optional)
- · Cold start





Battery Cabinets (Optional)

Control Panel



Rack-Tower convertible Two directions LCD display

# **Technical Specifications**

MODEL		UCR60L	UCR100L					
Capacity (\ INPUT	VA/Watts)	6K / 5.4K	10K/9K					
Nominal Vo	oltage	380/400/415Vac(3Ph+N+PE)	or 220/230/240Vac(L+N+PE)					
Operating \	Voltage Range	208~478Vac	or 120~276Vac					
Operating F	Frequency Range	50Hz: 45~55Hz	, 60Hz: 54~66Hz					
Power Fac	tor	≥(	0.99					
		Max.voltage: 220V · +25%(	Optional +10%,+15%,+20%)					
			<u> </u>					
Bypass Voltage Range		230V: +20%(Optional +10%,+15%) 240V: +15%(Optional +10%)						
		240V: +15%(Optional +10%)  Min. voltage: -45% (Optional -20%,-30%)						
ECO Rang	10	_	s bypass					
			on-linear load)					
	Distortion (THDi)	≤5%(100% n	on-linear load)					
OUTPUT		000/000	2/0.40					
Output Volt			0/240Vac					
Power Fac			0.9					
Voltage Re	-		1%					
Frequency	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10%	% of the rated frequency(Optional)					
requericy	Bat. Mode	(50/60	±0.1)Hz					
Crest Facto	or	3	3:1					
	N. J. J. J. J. (TUD.)	≤2% with	linear load					
Harmonic [	Distortion (THDv)		on-linear load					
Waveform			inewave					
Transfer Ti	ime		; Utility to Bypass: 0ms					
EFFICIEN		Ounty to battery . Offis	, July to Dypass. One					
	IC f	I le te	- 0.40/					
Efficiency	,	Op to	94%					
BATTERY								
Battery Vol		Selectable Voltage: ±96/108/120Vdc 6~8 hours (To 90% capacity)						
Typical Red	charge Time	6~8 hours (To	90% capacity)					
Charging C	Current	Maximum	current 10A					
PROTEC1	TION							
Overload	Line Mode	Load ≤ 125%: last 5min; ≤ 150%: last 1r	min; > 150% 200ms turn to bypass mode					
Overload	Bypass Mode	40A(Input breaker)	63A(Input breaker)					
Short Circu	uit	Hold Who	ble System					
Overheat		Line Mode: Switch to Bypass; Backu	p Mode: Shut down UPS immediately					
Battery Lov	N		d Switch off					
INDICATO								
	√isual Alarms	Line Failure, Battery Low	v, Overload, System Fault					
	0 & LCD Display		de, Battery Low, Battery Bad, Overload & UPS Fault					
	On The LCD Panel		ery Level, Inner Temperature & Remaining Battery Backup Time					
		mparoutput voitage, imparoutput Frequency, Load Level, Ball	ory Level, initial Temperature & Remaining Dattery DdCKUP Time					
MANAGE		DO 000110D D 00114D	and (Ontingal) Delay and (Ontingal)					
	ation Interface	KS-Z3Z,USB,Parallel card, SNMP	card(Optional), Relay card (Optional)					
ENVIRON			1000					
	Temperature		40℃					
	emperature		~55℃					
Humidity R	ange	0~95% (Nor	n-condensing)					
Altitude		< 15	500m					
Noise Leve	el	<5	5dB					
PHYSICA	L							
	W×D×H (mm)	443×580	)×131(3U)					
Net Weight	` '	30	31					
STANDAF	` -,							
Noise Supr		Complian with	h EN62040-2					
	ni e99101 I	·						
Safety			,IEC/EN60950-1					
EMC			I-2,IEC61000-4-3,IEC61000-4-4, 000-4-6,IEC61000-4-8					
BATTERY	PACK	12001000 4 3,120010						
Model		EXBR	±120V					
	e& Max.quantity		)/9Ah×20					
	s W×D×H (mm)		)×131(3U)					
LICIOI IOIUI K			57					
Net Weight	t (ka)	1						

Output factor is changed when selecting different battery quantity. 16PCS:0.7; 18PCS:0.8; 20PCS:0.9

Specifications are subject to change without prior notice.



- · True double-conversion
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- · Selectable quantity of battery for each group (For long run unit)
- · Adjustable charging current via LCD
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · Emergency power off function(EPO)
- · Maintenance bypass is convenient for maintenance
- · Generator compatible
- · Communications:RS-232,RS-485,USB,SNMP card(Optional), Relay card (Optional)
- · Cold start



Rear Panel

# **Technical Specifications**

MODEL		UD10 / UD10L	UD15 / UD15L	UD20 / UD20L	UD30 / UD30L	UD40L					
Capacity (VA	/Watts)	10K / 9K	15K / 13.5K	20K/18K	30K /27K	40K /36K					
INPUT											
Nominal Volta	age			380/400/415Vac(3Ph+N+F	PE)						
	oltage Range			Vac@half load; 305~478V	· · · · · · · · · · · · · · · · · · ·						
	equency Range										
Power Factor			50Hz: 45~55Hz, 60Hz: 54~66Hz ≥0.99								
OWEI I actor	ı		May voltage:	220V: +25%(Optional +10	1% +15% +20% )						
Bypass Volta	ige Range			)V: +20%(Optional +10%, 240V: +15%(Optional +10	-						
-00 D			IVIII. VOILAÇ	ge: -45% (Optional -10%,	-20%,-30%)						
ECO Range	: (TUD)			Same as bypass	1)						
	stortion (THDi)			≤3%(100% non-linear loa	IO)						
DUTPUT											
Output Voltag	-			380/400/415Vac(3Ph+N+F	PE)						
Power Factor	r			0.9							
√oltage Regu	ulation			± 1%							
requency	Line Mode		±1%/±2%/±4%	$5/\pm 5\%/\pm 10\%$ of the rated	frequency(Optional)						
	Bat. Mode			50/60(1±0.1%)Hz							
Crest Factor				3:1							
I Di-	-tt (TUD: )			≤2% with linear load							
Harmonic Dis	stortion (THDv)			≤5% with non-linear loa	d						
Vaveform				Pure Sinewave							
Transfer Tim	ρ		Utility to Battery : 0ms; Utility to Bypass: 0ms								
EFFICIENC		Ounty to Dattery . Orns, Ounty to Dypass. Orns									
Efficiency	•			95%							
BATTERY				3070							
DATIENT	Standard unit	± 120Vdc (20pcs 12V9AH)	+ 120\/dc (2\	(20pcs 12V9AH)	± 120Vdc (3x20pcs 12V9AH)	N/A					
Battery	Stariuaru uriit	= 120 vdc (20pcs 12 v9A(1))	± 120 Vuc (2)	ZUPCS 12 V 3 A( 1)	± 120 Vuc (3x20pcs 12 V9A11)	Selectable Voltage:					
/oltage	Long run unit		Selectable Voltage: ±	96V/±108V/±120Vdc		± 192V/±204V/±216\ ±228V/±240Vdc					
Charging	Standard unit	1.35	2	.7	4.05	N/A					
Current (A)	Long run unit		Max.current 10A		Max.current 20A	Max.current 20A					
ROTECTION	-				1						
	Line Mode	Load≤110%: last	t 60min. ≤ 125%; last 10m	in ≤150%: last 1min ≥15	50% turn to bypass mode imme	ediately					
Overload	Bat. Mode		Load ≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, ≥150% turn to bypass mode immediately  Load ≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, ≥150% shut down UPS immediately								
Jvonoda	Bypass Mode	20A(Input breaker)	32A(Input breaker)	40A(Input breaker)	63A(Input breaker)	80A(Input breaker					
Short Circuit	Бураос точе	207 (Impat broaker)	ozr (mpat broaker)	Hold Whole System	con (mpat broaker)	oor (input broaker					
Overheat			Lina Mada: Switch to B		et down LIDS immediately						
		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately  Alarm and Switch off									
Battery Low	20			Alaitti ahu Swilch on							
NDICATOR											
Audible & Vis				e, Battery Low, Overload, S	-						
	& LCD Display				ow, Battery Bad, Overload & U						
	On The LCD Panel	Input/Output Voltage, In	put/Output Frequency, Lo	ad Level, Battery Level, Inr	ner Temperature & Remaining	Battery Backup Time					
MANAGEM	ENT										
Communicati	ion Interface	RS-232,RS-485,U	JSB,Parallel card, SNMP of	card(Optional), Relay card	(Optional),Battery temperature	sentor(optional)					
ENVIRONM	IENT										
Operating Te	emperature			0~40℃							
Storage Tem	perature			-25~55℃							
Humidity Rar	nge			0~95% (Non-condensing	3)						
Altitude				< 1500m							
Noise Level			<55dB		<58dB	<70dB					
PHYSICAL					1						
	/×D×H (mm)			250x828x868							
Vet Weight (F	. ,	115/57	170/63	171/64	223/71	73					
		113/37	170/00	17 1/04	223//1	7.5					
STANDARD				Complian with ENGO 40	2						
Voise Suppre	500IUI I		.=	Complies with EN62040-							
Safety				C/EN62040-1,IEC/EN609							
EMC				EC61000-4-2,IEC61000-							
			IEC6100	00-4-5,IEC61000-4-6,IEC	61000-4-8						

Specifications are subject to change without prior notice.