

-Data Center Product Line -

KSTAR Classic Tower & Convertible UPS Series



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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 mode
- · Auto 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



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								
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 Sir	ewave at nominal v	/oltage ± 10%				
Frequency Range (Batt. Mode)			5	0 Hz or 60 Hz ±1 F	łz				
Transfer Time			Тур	ical 2~6 ms, 10ms r	nax.				
BATTERY	1		1		I	I	1		
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 2		
Typical Recharge time			6~81	nours (To 90% cap	acity)				
PROTECTION	1								
Full Protection			Overload	and overcharge pro	otection				
INDICATORS	1								
LED (LED version)			AC Mode, Batte	ery Mode, Load Lev	el, Battery Level				
LCD (LCD version)	AC Mode	e, Battery Mode, Lo	oad Level, Battery L	evel, Input Voltage,	Output Voltage, Ov	erload, Fault, Batte	ry Low		
ALARM	1								
Battery Mode			Sou	nding every 10 seco	onds				
Battery Low			Si	ounding every seco	nd				
Overload			Sou	nding every 0.5 sec	cond				
Battery Replacement Alarm			Sou	ınding every 2 seco	nds				
Fault			C	ontinuously soundir	ng				
MANAGEMENT	1								
USB & RS-232 port (Optional)		Supports W	indows® 2000/2003	/XP/Vista/2008, Wir	ndows® 7, Linux, Un	ix, and MAC			
ENVIRONMENT	1								
Operating Temperature				0~40℃					
Humidity Range			0~6	5 % (Non-condens	sing)				
Noise Level			<400	B (1 meter from sur	face)				
PHYSICAL	1					ı			
Dimension, W×D×H (mm)		101×298×142		149.3×3	338 × 162	158×3	80 × 198		
Net Weight (kg)	3.55	4.25	4.9	7.8	8	11.1	11.5		
STANDARDS	' I		1			1	1		
Safety			IEC/EN	162040-1;IEC/EN60	0950-1				
EMC	IEC/EN62	2040-2;IEC61000-	4-2;IEC61000-4-3	; EC61000-4-4; E0	C61000-4-5;IEC61	000-4-6;IEC6100	0-4-8		

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



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	162~2	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 x 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, Inp	ut Voltage, Output Voltage, Overload, Fault, Battery Low		
ALARM				
Battery Mode	Sounding eve	ery 10 seconds		
Battery Low	Sounding e	very second		
Overload	Sounding eve	ery 0.5 second		
Battery Replacement Alarm	Sounding eve	ery 2 seconds		
Fault	Continuous	sly 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		ı		
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







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



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



Rear Panel

Technical Specifications

MODEL		UB10-24	UB10	UB10L	UB15	UB15L	UB20-48	UB20	UB20-96	UB20L UB20L-	96 UB30	UB30-96	UB30L	UB30L-9
Capacity (\	VA/Watts)	100	00VA/90	WO	1500VA	V1350W		200	0VA/180	OOVV		3000VA	V2700W	
INPUT					1						1			
Nominal Vo	oltage						208/22	0/230/24	0Vac(L+	N+PE)				
	Voltage Range	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load												
	rating Frequency Range			(= ====)						Iz Auto Sensing			.(-/
Power Fac			>(0.85@25	%I oad:>							3 100%L	nad	
OUTPUT		>0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load												
Output Vol	tana					2	008/220/2	30/240\/s	ac-230\/s	ac(Default)				
Power Fac							.00/220/2			ac(Deladit)				
Voltage Re		0.9 ±1%												
Vollage Re	_					/E EELI→	+ 0 03LI-			lz ±0.02Hz@60	\ →			
Fraguana	Synchronized Range					40~00HZ	± 0.02⊓2	.W 3UHZ,	33~63H	12 ± 0.02 \(\text{\text{\$\pi}}\)	JΠZ			
Frequency	Battery Mode & None Synchronized Range							$(50/60 \pm$	0.02)Hz					
Crest Factor			3:1											
016311 400	OI .							3% with		nd .				
Harmonic Distortion (THDv)								6 with nor						
Mountam							€0.	Pure Sir		oau				
Waveform Transfer Time						I Itility to	Dotton			ass: 4ms(Typic	-I)			
						Utility to	Dallery.	JITIS, ULIIII	у ю Бур	ass. 4ms(rypic	al)			
EFFICIEN	ICY		000/		1 00	201	I		000/		1	0/	201	
AC Mode		0.40/	88%		_	3%	050/		89%	20/			0%	
Battery Mo		84%		5%	85	5%	85%			6%		8.	7%	
ECO Mode			>93%						>9	4%				
BATTERY					ı					I			ı	
Battery Typ	pe		12V/7AH/9AH	_	12V/7AH/9AH			12V/7AH/9AH		12V	12V/9AH	12V/7AH	12	
Numbers		2	3	3×N	3	3×N	4	6	8	6×N 8×N		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.
	/oltage(Vdc)	27.4V±1%		41.1\	/±1%		54.8±1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1% 109.6V ±	1% 82.2V ± 1%	109.6V ± 1%	6 82.2V	± 1%
109.6V±1%														
Protect	1	Over-voltage(14.4v) / Low-voltage(10v)												
PROTEC	TION													
Overload	Line Mode	105~150%, 30s turn to bypass mode; >150% 300ms turn to bypass mode												
Capacity	Battery Mode				105~15	0%, exce	ed 30s s	nutdown	>150%	exceed 300ms	shutdown			
INDICATO	ORS													
LED & LCI	O Display	Load/Battery/Input/Output/Operating Mode Information												
ALARM														
Battery Mo	ode	Sounding every 4 seconds												
Battery Lov	W	Sounding every second												
Overload							Sour	nding eve	ry 0.5 se	cond				
Fault								ntinuousl						
MANAGE	MENT									3				
	-232/USB(Preferential)		Fx	ternal Mo	odbus car	rd suppor	ted by RS	S232.Soft	ware sur	oports Windows	Family Lin	ius FreeF	SD	
Intelligent S	` ,						-	,				,	.00	
ENVIRON		SNMP (Standard or mini) independent to RS-232(Optional)												
	Temperature							0~4	റൗ					
Humidity R	<u> </u>						0~0	5% (Non-		sina)				
Altitude	urigo						0 9	5 % (1901) 151 >		Sii 19 <i>)</i>				
Noise Leve								<50dB@	rivieter					
PHYSICA				400 -	Ja E	T				1.0.	104 22=			I
	W×D×H (mm)			×400×2						1	168 × 337			
Net Weight		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
STANDAR	RDS													
STANDAN		IEC/EN62040-1												
Safety								IEC/EIVe	2040-1					

Specifications are subject to change without prior notice.

-Online Rack-tower UPS-UBR Series 1~3kVA 1:1phase PF:0.9



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	d	
Current(A)	0.4	0.6	0.8	1.2	1.6
Protection			Resettable circuit break	er	
CHARGER OUTPUT		ı			
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/9	AH; Sealed Valve Regu	lated Lead-Acid Battery	(VRLA);Maintenand	e 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)	144×40	00×215		191×468×337	
Net Weight (kg)	13.3	18.5	30.2	35.5	45.8
INDICATORS		ı	ı l		
LED Panel		Charg	ing LED, Battery testing	LED	
ENVIRONMENT					
Operating Temperature			0~40℃		
Humidity Range		0	~90% (Non-condensino	9)	
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







Easy for maintenance, hot-swappable battery

Multifunctional bracket





Rear Panel



Technical Specifications

MODEL		UBR10	UBR10-36	UBR10L	UBR10L-36	UBR15	UBR15L	UBR20	UBR20-72	UBR20L	UBR20L-7	UBR30	UBR30L
Capacity (\	VA/Watts)		1000VA/90	00W		1500VA	/1350W		2000VA/	1800W		3000VA	/2700W
INPUT	,												
Nominal Vo	oltage					208/2	220/230/24	40Vac(L+N	+PE)				
	Voltage Range	110-	-300Vac@	(0~60%) L c	ad:120~30			`		%)Load:16	60~300Vac	@(80~100%	a)I oad
	Frequency Range		110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load										
Power Fac	. , , ,	> 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load											
OUTPUT	5101		7 0.00	J@2570L0	au,>0.55 (@30 /0L0ac	1,20.01@1	570L0du,>	0.00 @ 110	TTIII ICII VOIL	aged 100	70L0au	
Output Vol	ltago					208/220	/330/340/	ac:230Vac	(Dofault)				
Power Fac						200/220/).9	(Delault)				
Voltage Re								1%					
Vullage Re	<u> </u>				4E EE	11= 10001			1.0.001.1=6	2001 1=			
F	Synchronized Range				45~55)HZ = U.UZF	12(W 50H2	z, 55~65Hz	± 0.02HZ@	ŷ0UHZ			
Frequency	Battery Mode & None Synchronized Range						(50/60 ±	0.02)Hz					
Crest Facto	or							3:1					
Harmonic [Distortion (THDv)							linear load					
	· · · - · /					€.	5% with no	n-linear lo	ad				
Waveform							Pure S	inewave					
Transfer tir	me				Utility	to Battery	: 0ms; Util	lity to Bypas	ss: 4ms(Ty	pical)			
EFFICIEN	ICY												
AC Mode			38	3%		88	3%		899	%		90)%
Battery Mo	ode	84%	85%	84%	85%	85	5%	85%	86%	85%	86%	87	7%
ECO Mode	Э						94	4%					
BATTERY	Y												
Battery Typ	ре	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
	/oltage(Vdc)	27.4 ± 1%	41.1 ± 1%	27.4 ± 1%	41.1	1±1%	41.1±1%	54.8	± 1% 82.2 ±	1% 54.8	± 1% 82.2	± 1%	82.2 ± 19
Protect	3 ()) / Low-volt					
PROTECT	TION						,	,	3 ()				
Overload	Line Mode			105~1	150% 30s	turn to hyr	ass mode	e;>150% 3	00ms turn	to hypass	s mode		
Capacity	Battery Mode							; >150% e					
INDICATO	-			100	, 10070, 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	oriatao wii	, , 100700	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mo oriato	.0 ****		
LED & LCI					L nad/	Ratten/Inn	ut/Output/	Operating N	Mode Inform	nation			
ALARM	<i>В</i> Вюріау				Loudin	Dattor y/11 ip	at Oatpat	Operating i	viouc ii iioi i	nation			
Battery Mo	odo					Sol	inding ove	ery 4 secon	do				
Battery Lov													
Overload	VV	Sounding every second Sounding every 0.5 second											
Fault	MENT					(oriliriuous	sly Soundin	g				
MANAGE			Estar	I N A II		and a state of the confi	20222		t - \A.Cl -	=		DOD	
	-232/USB(Preferential)		Exterr	nai iviodbu				ftware supp			y,Linus,Fr	eeR2D	
Intelligent S					SNMP (Standard o	r mını) inde	ependent to) RS-232((Optional)			
ENVIRON								4090					
	Temperature							40℃					
	Range					0~		n-condensi	ng)				
Humidity R								600m,					
Altitude							<50dB@	0 1Meter					
Altitude Noise Leve													
Altitude													
Altitude Noise Leve				440 >	×430×86.	5		440×572 ×86.5	440×696 ×86.5	440×5	72×86.5	440×696 ×86.5	440×572 ×86.5
Altitude Noise Leve PHYSICA Dimension	NL I W×D×H (mm)	13.2	15.7	I	1	T	7.9	×86.5	×86.5		T	×86.5	×86.5
Altitude Noise Leve PHYSICA Dimension Net Weight	t (kg)	13.2	15.7	440× 7.7	< 430 × 86.	5 15.8	7.9			440×5	72×86.5		1
Altitude Noise Leve PHYSICA Dimension	t (kg)	13.2	15.7	I	1	T		×86.5	×86.5		T	×86.5	×86.5

Specifications are subject to change without prior notice.

Technical Specifications

MODEL	EXBR+24V	EXBR+36V	EXBR+48V	EXBR+72V			
VOLTAGE	+24V	+36V	+48V	+72V			
CHARGER INPUT							
Voltage Range		150~2	285Vac				
Frequency	50/60Hz						
Phase		Single phase with ground					
Current(A)	0.4	0.6	0.8	1.2			
Protection	Resettable circuit breaker						
CHARGER OUTPUT			1				
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			1				
Dimension W×D×H (mm)	440×43	30×86.5	440×572×86.5	440×696×86.5			
Net Weight (kg)	17.3	22.3	28.4	40.8			
INDICATORS			1				
LED Panel		Charging LED, B	attery testing LED				
ENVIRONMENT							
Operating Temperature		0~	40℃				
Humidity Range		0~90% (Nor	n-condensing)				
Noise Level		<40dB(@ 1Meter				
STANDARDS							
Safety		IEC/EN	62040-1				
EMC		IEC/EN	62040-2				

Specifications are subject to change without prior notice.



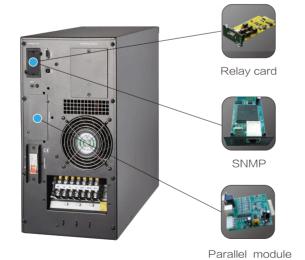
- · True double-conversion
- · DSP technology guarantees high reliability
- · N+X parallel redundancy
- · Selectable quantity of battery for each group:16/18/20 pieces
- · 3-stage charging design optimizes battery performance
- · ECO mode operation for energy saving
- · Self-diagnosis at startup
- · 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

MODEL		UB60	UB60L	UB100	UB100L				
Capacity (VA/V	Vatts)	6K/5	4K	10K	/9K				
INPUT									
Nominal Voltag	ie		220/230/240V	ac(L+N+PE)					
Operating Volta			120~27	<u> </u>					
Operating Freq			50Hz: 45~55Hz,						
Power Factor	quority i tarige		≥0.						
rower ractor									
			Max.voltage: 220V: +25%(C						
Bypass Voltage	e Range		230V: +20%(Optio	<u> </u>					
			240V: +15%(O	· · · · · · · · · · · · · · · · · · ·					
			Min. voltage: -45% (C	ptional -20%,-30%)					
ECO Range			Same as	bypass					
Harmonic Disto	ortion (THDi)		≤5%(100% no	n-linear load)					
OUTPUT									
Output Voltage)		220/230/	240Vac					
Power Factor			0.9	9					
	ation		±1						
Voltage Regulation Line Mode			± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% c						
Frequency	Bat. Mode								
			(50/60 ±	· ·					
Crest Factor			3:						
Harmonic Disto	ortion (THDv)		≤2% with I						
			≤5% with nor						
Waveform			Pure Sir	ewave					
Transfer Time			Utility to Battery : 0ms;	Utility to Bypass: 0ms					
EFFICIENCY									
Efficiency			Up to	94%					
BATTERY									
Battery Voltage	٥	Selectable Voltage: ±96/108/120Vdc							
Typical Rechar			6~8 hours (To						
		Maximum current 10A							
Charging Curre		I MAXIMUM CUMENT NOA							
PROTECTION		1 1 1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Overload _	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							
NDICATORS	3								
Audible & Visua	al Alarms	Line Failure, Battery Low, Overload, System Fault							
Status LED & L	CD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault							
	n The LCD Panel	Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time							
MANAGEME		inpurvouput voltage, inpurvouput Frequericy, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time							
Communication		RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)							
		R5-23	z,05B,Paraliel card(Optional), Sivi	//P card(Optional), Relay card (Opt	ional)				
ENVIRONME		1							
Operating Tem	·		0~4						
Storage Tempe	erature		-25~						
Humidity Rang	е		0~95% (Non-	condensing)					
Altitude			< 150	00m					
Noise Level			<55	dB					
DLIVCICAL									
PHISICAL	D×H (mm)	250×502×616	220×481×438	250×502×616	220×481×438				
			18	64	20				
Dimension W×	1)	h)		○ T	20				
Dimension W× Net Weight (kg		62							
Dimension W× Net Weight (kg STANDARDS	3	62	Complies with	EN62040-2					
Dimension W× Net Weight (kg STANDARDS Noise Suppres	3	62	Complies with						
PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety	3	62	IEC/EN62040-1,	EC/EN60950-1					
Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety	3	62	IEC/EN62040-1,IEC/EN62040-2,IEC61000-4-2,	EC/EN60950-1 EC61000-4-3,IEC61000-4-4,					
Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety EMC	sision	62	IEC/EN62040-1,	EC/EN60950-1 EC61000-4-3,IEC61000-4-4,					
Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety EMC	sision	62	IEC/EN62040-1,IEC/EN62040-2,IEC61000-4-2,	EC/EN60950-1 EC61000-4-3,IEC61000-4-4,					
Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety EMC BATTERY PA	sision	62	IEC/EN62040-1,IEC/EN62040-2,IEC61000-4-2,	EC/EN60950-1 IEC61000-4-3,IEC61000-4-4, IO-4-6,IEC61000-4-8					
Dimension W× Net Weight (kg STANDARDS Noise Suppres Safety EMC BATTERY PA Model	Sission ACK	62	IEC/EN62040-1, IEC/EN62040-2,IEC61000-4-2, IEC61000-4-5,IEC6100	EC/EN60950-1 IEC61000-4-3,IEC61000-4-4, IO-4-6,IEC61000-4-8					
Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety	Sission ACK Max.quantity	62	IEC/EN62040-1, IEC/EN62040-2,IEC61000-4-2, IEC61000-4-5,IEC6100	EC/EN60950-1 IEC61000-4-3,IEC61000-4-4, I0-4-6,IEC61000-4-8 120V 3Ah×40					

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	Vac(L+N+PE)				
Operating Vo	ltage Range	120~2	276Vac				
Operating Fre	equency Range	50Hz: 45~55Hz,	60Hz: 54~66Hz				
Power Factor	r	>(0.99				
		Max.voltage: 220V: +25%(Optional +10%,+15%,+20%)				
Bypass Volta	ne Ranne	230V: +20%(Opt	ional +10%,+15%)				
Буразз убла	igo rango	240V: +15%(Optional +10%) Min. voltage: -45% (Optional -20%, -30%) Same as bypass					
ECO Range							
Harmonic Dis	stortion (THDi)	≤5%(100% no	on-linear load)				
OUTPUT							
Output Voltaç	ge	220/230	0/240Vac				
Power Factor	r	0	.9				
Voltage Regu	ulation	±	1%				
Frequency	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10%	of the rated frequency(Optional)				
requerity	Bat. Mode	(50/60	± 0.1)Hz				
Crest Factor		3	:1				
Harmonio Dia	etartion (THDv)	≤2% with	linear load				
riamionic Dis	stortion (THDv)	≤5% with no	on-linear load				
Vaveform		Pure Si	newave				
Transfer Time	е	Utility to Battery: 0ms	; Utility to Bypass: 0ms				
EFFICIENC	Υ	'					
Efficiency		Up to	94%				
BATTERY		'					
Battery Volta	ge	Optional Voltage:	±96/108/120Vdc				
Typical Recharge Time		6~8 hours (To	90% capacity)				
Charging Cur	rrent	Maximum current 10A;					
PROTECTION							
	Line Mode	Load≤125%: last 5min;≤150%: last 1n	nin; > 150% 200ms turn to bypass mode				
	Line Mode Bypass Mode	Load≤125%: last 5min;≤150%: last 1n 40A(Input breaker)	nin; > 150% 200ms turn to bypass mode 60A(Input breaker)				
Overload		40A(Input breaker)					
Overload Short Circuit		40A(Input breaker) Hold Who	60A(Input breaker)				
Overload Short Circuit Overheat		40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu	60A(Input breaker)				
Overload Short Circuit Overheat Battery Low	Bypass Mode	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu	60A(Input breaker) ble System p Mode: Shut down UPS immediately				
Overload Short Circuit Overheat Battery Low INDICATOR	Bypass Mode	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and	60A(Input breaker) ble System p Mode: Shut down UPS immediately				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis	Bypass Mode	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8	Bypass Mode	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On	Bypass Mode 2S sual alarms k LCD Display The LCD Display	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On MANAGEM	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, 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 TMANAGEMI Communicati	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On TMANAGEMI Communicati ENVIRONM	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On TMANAGEMI Communicati ENVIRONM Operating Te	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On TMANAGEMI Communicati ENVIRONM Operating Te Storage Tem	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On Tom MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off v, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On The Communication ENVIRONM Operating Te Storage Tem Humidity Ran Altitude	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off c, Overload, System Fault de, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C I-condensing)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On Tomation MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor	60A(Input breaker) lole System p Mode: Shut down UPS immediately I Switch off /, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C I-condensing)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On Temperature MANAGEMI Communicati ENVIRONM Operating Temperature Humidity Ran Altitude Noise Level PHYSICAL	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15	60A(Input breaker) lole System p Mode: Shut down UPS immediately I Switch off /, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C I-condensing)				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On Technology MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT imperature perature gge	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15	60A(Input breaker) lole System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 600m 5dB				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On Technology MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k	Bypass Mode RS sual alarms k LCD Display The LCD Display ENT on Interface IENT mperature perature gge (**D×H (mm)	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15- <56- 443 × 580	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 600m 5dB				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (k STANDARD	Bypass Mode RS sual alarms k LCD Display The LCD Display The LCD Display ENT on Interface JENT mperature perature perature jge (× D×H (mm) rg) DS	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15- <56- 443 × 580	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On MANAGEMI Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (STANDARD Noise Suppre	Bypass Mode RS sual alarms k LCD Display The LCD Display The LCD Display ENT on Interface JENT mperature perature perature jge (× D×H (mm) rg) DS	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15 <55 443 × 580	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED & Reading On Temperating MANAGEMI Communicati ENVIRONM Operating Temperating Temperating Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (It STANDARD Noise Suppressafety	Bypass Mode RS sual alarms k LCD Display The LCD Display The LCD Display ENT on Interface JENT mperature perature perature jge (× D×H (mm) rg) DS	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15 <55 443 × 580 19 Complies with IEC/EN62040-1	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2 JEC/EN60950-1				
Overload Short Circuit Overheat Battery Low INDICATOR Auditible & Vis Status LED & Reading On Technology MANAGEMI Communicati ENVIRONM Operating Technology Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (It STANDARD Koise Suppressafety	Bypass Mode RS sual alarms k LCD Display The LCD Display The LCD Display ENT on Interface JENT mperature perature perature jge (× D×H (mm) rg) DS	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor < 15 <55 443 × 580 19 Complies with IEC/EN62040-2,IEC61000-4-2	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On Temperating Temperati	Bypass Mode 2S Sual alarms & LCD Display The LCD Display ENT on Interface IENT Imperature perature perature loge (/×D×H (mm) Sg) DS DS DS DS DS DS DS DS DS D	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor < 15 <55 443 × 580 19 Complies with IEC/EN62040-2,IEC61000-4-2	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2 ,IEC/EN60950-1 ,IEC61000-4-3,IEC61000-4-4,				
Reading On MANAGEMI Communicati ENVIRONM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL	Bypass Mode 2S Sual alarms & LCD Display The LCD Display ENT on Interface IENT Imperature perature perature loge (/×D×H (mm) Sg) DS DS DS DS DS DS DS DS DS D	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battlery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15 <5: 443 × 580 19 Complies wit IEC/EN62040-1 IEC/EN62040-2,IEC61000-4-5 IEC61000-4-5,IEC610	60A(Input breaker) le System p Mode: Shut down UPS immediately I Switch off I, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault lery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2 ,IEC/EN60950-1 ,IEC61000-4-3,IEC61000-4-4,				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On Town MANAGEMI Communicati ENVIRONIM Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (I) STANDARD STANDARD Safety EMC BATTERY F Model	Bypass Mode 2S Sual alarms & LCD Display The LCD Display ENT on Interface IENT Imperature perature perature loge (/×D×H (mm) Sg) DS DS DS DS DS DS DS DS DS D	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25 - 0 ~95% (Nor <15 <-5: 443 × 580 19 Complies wit IEC/EN62040-1 IEC/EN62040-2,IEC61000-4-2 IEC61000-4-5,IEC610	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off //, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time and(Optional), Relay card (Optional) 40°C -55°C -condensing) 500m 5dB × 131 (3U) 20 h EN62040-2 JEC/EN60950-1 2, IEC/EN60950-1 2, IEC/EN60950-1 2, IEC/EN60950-1-8				
Overload Short Circuit Overheat Battery Low INDICATOR Audible & Vis Status LED 8 Reading On The Managemi MANAGEMI Operating Te Storage Tem Humidity Ran Altitude Noise Level PHYSICAL Dimension W Net Weight (F STANDARD Noise Suppre Safety EMC BATTERY F Model Battery type8	Bypass Mode RS Sural alarms & LCD Display The LCD Display ENT On Interface IENT Imperature Inge V × D × H (mm) ING	40A(Input breaker) Hold Who Line Mode: Switch to Bypass; Backu Alarm and Line Failure, Battery Low Line Mode, Backup Mode, Eco Mode, Bypass Mod Input/Output Voltage, Input/Output Frequency, Load Level, Batt RS232,USB, Parallel Port, SNMPc 0 ~25- 0 ~95% (Nor <15 <5: 443 × 580 19 Complies witt IEC/EN62040-1 IEC/EN62040-2,IEC61000-4-2 IEC61000-4-5,IEC610 EXBR 7Ah × 20	60A(Input breaker) ble System p Mode: Shut down UPS immediately I Switch off r, Overload, System Fault le, Battery Low, Battery Bad, Overload & UPS Fault ery Level, Inner Temperature & Remaining Battery Backup Time ard(Optional), Relay card (Optional) 40°C -55°C -condensing) 5000m 5dB × 131 (3U) 20 h EN62040-2 JEC/EN60950-1 2,IEC61000-4-3,IEC61000-4-4, 100-4-6,IEC61000-4-8				

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+P	E) or 220/230/240Vac(L+N+PE)						
Operating Volta	age Range		· · · · · · · · · · · · · · · · · · ·	or 120VAC-276Vac						
Operating Freq			50Hz: 45~55H	Hz, 60Hz: 54~66Hz						
Power Factor				≥0.99						
			Max.voltage: 220V: +25%	%(Optional +10%,+15%,+20%)						
Dynass Valter	o Pango			6(Optional +10%,+15%)						
Bypass Voltage	e nange			%(Optional +10%)						
		Min. voltage: -45% (Optional -20%,-30%)								
ECO Range		Same as bypass								
Harmonic Disto	ortion (THDi)		≤5%(100%	non-linear load)						
OUTPUT	'									
Rated Voltage			220/2	30/240Vac						
Power Factor				0.9						
Voltage Regula	ation			± 1%						
	Line Mode		± 1%/± 2%/± 4%/± 5%/± 10°	% of the rated frequency(Optional)						
Frequency	Bat. Mode			60 ± 0.1)Hz						
Crest Factor				3:1						
	ortion (TUDy)		≤2% w	ith linear load						
Harmonic Disto	UIUUII (IPDV)		≤5% with	non-linear load						
Waveform			Pure	Sinewave						
Transfer Time				ns; Utility to Bypass: 0ms						
EFFICIENCY	,		,							
Efficiency		Up to 94°	Up to 94% Up to 94.5%							
BATTERY										
Battery Voltage	e		Selectable Volta	age: ±96/108/120Vdc						
Typical Rechar				To 90% capacity)						
Charging Curre	-	Maximum current 10A								
PROTECTION										
	Line Mode	Los	ad≤125%: last 5min;≤150%: l	last 1min; > 150% 200ms turn to bypas	s mode					
Overload –	Bypass Mode	63A(Input bre		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	5									
		Line Failure, Battery Low, Overload, System Fault								
Audible & Visual Alarms		Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault								
		Line Mode, Backur	Mode, Eco Mode, Bypass M	iode, Ballery Low, Ballery Bad, Overior	Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time					
Status LED & L										
Status LED & L Parameters Or	LCD Display n The LCD Panel									
Status LED & L Parameters Or MANAGEMEI	LCD Display n The LCD Panel NT	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba		naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication	LCD Display n The LCD Panel NT n Interface	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba	attery Level, Inner Temperature & Rem	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communicatior ENVIRONME	LCD Display n The LCD Panel NT n Interface	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), S	attery Level, Inner Temperature & Rem	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communicatior ENVIRONME Operating Tem	LCD Display In The LCD Panel INT In Interface INT Inperature	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0	attery Level, Inner Temperature & Rem	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe	LCD Display n The LCD Panel NT n Interface ENT nperature erature	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti \sim 40°C	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tem Storage Tempe Humidity Range	LCD Display n The LCD Panel NT n Interface ENT nperature erature	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0~95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti \sim 40 $^{\circ}$ C \sim 55 $^{\circ}$ C	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude	LCD Display n The LCD Panel NT n Interface ENT nperature erature	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude Noise Level	LCD Display n The LCD Panel NT n Interface ENT nperature erature	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude Noise Level PHYSICAL	LCD Display In The LCD Panel INT In Interface ENT Inperature erature je	Input/Output Voltage, Input/Outp	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude Noise Level PHYSICAL Dimension W×	LCD Display In The LCD Panel NT In Interface ENT Inperature erature le In D×H (mm)	Input/Output Voltage,	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m <58	naining Battery Backup Time					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg	LCD Display In The LCD Panel NT In Interface ENT Inperature erature de D×H (mm) I)	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0~95% (N	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 15~55°C Ion-condensing) 1500m <58	naining Battery Backup Time onal)					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempor Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS	LCD Display In The LCD Panel NT In Interface ENT Inperature erature le IN I	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0~95% (N <	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Optional), Relay card (Optional), Relay card (Optional), Relay card (Optional), 25 - 55°C Ion-condensing) 1500m	naining Battery Backup Time onal)					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Tempe Humidity Range Altitude Noise Level PHYSICAL Dimension W× Net Weight (kg STANDARDS Noise Suppres	LCD Display In The LCD Panel NT In Interface ENT Inperature erature le AD×H (mm) I) I) Is	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0~95% (N <	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Optional), Relay car	naining Battery Backup Time onal)					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety	LCD Display In The LCD Panel NT In Interface ENT Inperature erature le AD×H (mm) I) I) Is	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time onal)					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety	LCD Display In The LCD Panel NT In Interface ENT Inperature erature le AD×H (mm) I) I) Is	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba "USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v IEC/EN62040-2,IEC61000-4	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time onal)					
Status LED & L Parameters Or MANAGEMEI Communication ENVIRONME Operating Temps Storage Temps Humidity Range Altitude Noise Level PHYSICAL Dimension W × Net Weight (kg STANDARDS Noise Suppres Safety EMC	LCD Display In The LCD Panel NT In Interface ENT Inperature Inper	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba "USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v IEC/EN62040-2,IEC61000-4	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time onal)					
Status LED & L 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	LCD Display In The LCD Panel NT In Interface ENT Inperature Inper	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v IEC/EN62040- IEC/EN62040- IEC61000-4-5,IEC6	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m <58 250×502×616 45 with EN62040-2 -1,IEC/EN60950-1 I-2,IEC61000-4-3,IEC61000-4-4, I1000-4-6,IEC61000-4-8	naining Battery Backup Time onal)					
Status LED & L Parameters Or 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	LCD Display In The LCD Panel INT In Interface INT Inperature Inperature Interface Inte	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v IEC/EN62040- IEC/EN62040- IEC61000-4-5,IEC6	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m	naining Battery Backup Time onal)					
Status LED & L	LCD Display In The LCD Panel INT In Interface INT Inperature Inperature In Interface In Interfac	Input/Output Voltage, Input/Output RS-232, RS-232, <55dB 250 × 597 × 655 76	put Frequency, Load Level, Ba ,USB,Parallel card(Optional), \$ 0 -2: 0 ~ 95% (N < 35 Complies v IEC/EN62040-2,IEC61000-4 IEC61000-4-5,IEC6	attery Level, Inner Temperature & Rem SNMP card(Optional), Relay card (Opti 1~40°C 5~55°C Ion-condensing) 1500m <58 250×502×616 45 with EN62040-2 -1,IEC/EN60950-1 I-2,IEC61000-4-3,IEC61000-4-4, I1000-4-6,IEC61000-4-8	naining Battery Backup Time onal)					

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

 $[\]cdot$ 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)
- · 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 I	Frequency Range	50Hz: 45~55Hz	, 60Hz: 54~66Hz					
Power Fac	tor	≥(0.99					
		Max.voltage: 220V: +25%(Optional +10%,+15%,+20%)						
D \ / -	Itaara Danasa		tional +10%,+15%)					
Bypass vo	oltage Range	240V: +15%(Optional +10%)						
			(Optional -20%, -30%)					
ECO Rang	ie	_	s bypass					
	Distortion (THDi)		on-linear load)					
OUTPUT	,	,	,					
Output Vol	tage	220/230	0/240Vac					
Power Fac			0.9					
Voltage Re								
v oltage i te	Line Mode		% of the rated frequency(Optional)					
Frequency	Bat. Mode		± 0.1)Hz					
Crest Facto		,	± 0. 1)					
JI GOL FAUL	UI .		s. i n linear load					
Harmonic [Distortion (THDv)							
Mountain -	-		on-linear load					
Waveform	·		inewave					
Transfer Ti		Utility to Battery : Ums	; Utility to Bypass: 0ms					
EFFICIEN	ICY		0.404					
Efficiency		Up to	94%					
BATTERY								
Battery Voltage			e: ±96/108/120Vdc					
Typical Red	charge Time	6~8 hours (To	90% capacity)					
Charging C		Maximum	current 10A					
PROTECT	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		ole System					
Overheat		Line Mode: Switch to Bypass; Backu	up Mode: Shut down UPS immediately					
Battery Lov	W	Alarm and	d Switch off					
INDICATO	ORS							
Audible & \	Visual Alarms	Line Failure, Battery Low	v, Overload, System Fault					
Status LEC	0 & LCD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mod	de, Battery Low, Battery Bad, Overload & UPS Fault					
Parameters	On The LCD Panel	Input/Output Voltage, Input/Output Frequency, Load Level, Batt	tery Level, Inner Temperature & Remaining Battery Backup Time					
MANAGE								
	ation Interface	RS-232,USB,Parallel card. SNMP	card(Optional), Relay card (Optional)					
ENVIRON			. , , , , , , , , , , , , , , , , , , ,					
	Temperature	0~	40℃					
. 0	emperature		~55℃					
Humidity R	<u> </u>		n-condensing)					
Altitude	unge		500m					
Noise Leve	اد		5dB					
PHYSICA		< 5	Jub					
		442 V E00) × 131/31 l)					
	W×D×H (mm)	30 443×580)×131(3U) 31					
Net Weight	,	30	31					
STANDAF		0	L ENCOMO 2					
Noise Supr	pression	·	th EN62040-2					
Safety			I,IEC/EN60950-1					
EMC			I-2,IEC61000-4-3,IEC61000-4-4, 000-4-6,IEC61000-4-8					
BATTERY	/ PACK		·					
Model		FXRR	±120V					
	e& Max.quantity)/9Ah×20					
	s W×D×H (mm))×131(3U)					
UNITED BOILDING	. ,		67					
Net Weight								

[·] 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	vWatts)	10K / 9K	15K / 13.5K	20K/18K	30K/27K	40K /36K			
NPUT									
Nominal Volta	age			380/400/415Vac(3Ph+N+P	E)				
Operating Vo	oltage Range	208~478Vac@half load; 305~478Vac@full load							
Operating Fr	equency Range	50Hz; 45~55Hz, 60Hz; 54~66Hz							
Power Facto	r	≥0.99							
		Max.voltage: 220V: +25%(Optional +10%,+15%,+20%)							
D \ / - H -	D		23	0V: +20%(Optional +10%,+	15%)				
Bypass Volta	age Range			240V: +15%(Optional +109	·				
				ge: -45% (Optional -10%, -	·				
ECO Range				Same as bypass	, ,				
	stortion (THDi)			≤3%(100% non-linear load	d)				
OUTPUT	, ,			,	,				
Output Voltag	ae			380/400/415Vac(3Ph+N+P	E)				
Power Facto	-			0.9					
Voltage Regi				± 1%					
Line Mede			± 1%/± 2%/+ 4°	%/±5%/±10% of the rated fi	requency(Optional)				
requency	Bat. Mode		- 1701 - 2701 - 47	50/60(1±0.1%)Hz	oquorio, (optional)				
Crest Factor	Dat. Mode			3:1					
U, UUI 1 dUIUI				≤2% with linear load					
Harmonic Dis	stortion (THDv)			≤5% with non-linear load					
Waveform				Pure Sinewave					
	^		1 14004 - 4		pace: Ωme				
Transfer Tim			Utility to	o Battery : 0ms; Utility to Byp	Dass: UITIS				
EFFICIENCY		OF OLD A STATE OF THE STATE OF							
Efficiency		95%							
BATTERY									
Battery	Standard unit	± 120Vdc (20pcs 12V9AH)	± 120Vdc (2	x20pcs 12V9AH)	± 120Vdc (3x20pcs 12V9AH)	N/A			
Voltage	Long run unit	Selectable Voltage: ±96V/±108V/±120Vdc				Selectable Voltage: ±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			
PROTECTION	ON		· · · · · · · · · · · · · · · · · · ·						
	Line Mode	Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% turn to bypass mode immediately							
Overload	Bat. Mode	Load ≤ 110%: last 10min, ≤ 125%: last 1min, ≤ 150%: last 5S, ≥ 150% shut down UPS immediately							
	Bypass Mode	20A(Input breaker) 32A(Input breaker) 40A(Input breaker) 63A(Input breaker) 80A(Input breaker) Hold Whole System							
Short Circuit									
Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately							
Battery Low		Alarm and Switch off							
INDICATOR	RS	, saint and Official							
Audible & Vis		Line Failure, Battery Low, Overload, System Fault							
	& LCD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault							
	On The LCD Panel	Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time							
MANAGEM			, ,,=.	, , , , ,		, , , , , , , , , , , , , , , , , , , ,			
	ion Interface	RS-232,RS-485.U	RS-232,RS-485,USB,Parallel card, SNMP card(Optional), Relay card (Optional),Battery temperature sentor(optional)						
ENVIRONM		1.0 202,10 400,000,1 arailer card, ortivir card(optional), treasy card (optional), battery temperature seritor (optional)							
Operating Te		0~40℃							
Storage Tem		-25~55°C							
Humidity Rar	-			0~95% (Non-condensing))				
Altitude	·3-			< 1500m	,				
Voise Level			<55dB	\ 1000III	<58dB	<70dB			
PHYSICAL			NOULD		, , , , , , , , , , , , , , , , , , ,	1700D			
	/ v D v H (mm)			250,020,060					
	/×D×H (mm)	115/57	170/63	250x828x868 171/64	223/71	73			
Net Weight (I		113/3/	170/03	17 1/04	223//1	13			
STANDARE				Complies with ENICOCAC	2				
Noise Suppre	essi0f1			Complies with EN62040-2					
Safety				EC/EN62040-1,IEC/EN6095					
EMC				,IEC61000-4-2,IEC61000-4	· ·				
			IEC610	00-4-5,IEC61000-4-6,IEC6	51000-4-8				

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