یو پی اس

UPS

شرکت مهندسی تالیران(سهامی خاص)

TALIRAN Engineering PJS Co

www.taliran.com

تالیران
دانش‌بنیان

UB

1-3kVA

UB series power supply adopts online double conversion design and digital control technology and it features high input and output power factor(0.9). With ECO mode for energy-saving, intelligent battery management and excellent network management, it is a cost-effetive power solution for your critical devices. When UPS is on battery mode, it can shut down unnecessary load and extend the backup time of the critical load.

General Features

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

Technical Specification

MODEL	UB 24-Oct	UB 10	UB 10L	UB 15	UB 15L	UB 20-48	UB 20	UB 20-96	UB 20L	UB 20L-96	UB 30	UB 30-96	UB 30L	UB 30L-96
Capacity (VA/Watts)	1000VA/900W			1500VA/1350W		2000VA/1800W					3000VA/2700W			
INPUT														
Nominal Voltage	208/ 220/230/240Vac(L+N+PE)													
Operating Voltage Range	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load; 160~300Vac @(80~100%)Load													
Operating Frequency Range	50Hz : 45~55Hz, 60Hz : 55-65Hz Auto Sensing													
Power Factor	> 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load													
OUTPUT														
Output Voltage	208/220/230/240Vac:230Vac(Default)													
Power Factor	0.9													
Voltage Regulation	±1%													
Frequency — Synchronized Range	45-55Hz ±0.02Hz@ 50Hz, 55-65Hz ±0.02Hz@60Hz													
Frequency — Battery Mode & None Synchronized Range	(50/60±0.02)Hz													
Crest Factor	3:01													
Harmonic Distortion (THDv)	≤3% with linear load; ≤5% with non-linear load													
Waveform	Pure Sinewave													
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 4ms(Typical)													
EFFICIENCY														
AC Mode	88%			88%		89%					90%			
Battery Mode	84%	85%		85%		85%	86%				87%			
ECO Mode	>93%					>94%								
BATTERY														
Battery Type	12V/9AH		12V	12V/9AH	12V	12V/9AH		12V/7AH	12V		12V/9AH	12V/7AH	12V	
Numbers	2	3	3*N	3	3*N	4	6	8	6*N	8*N	6	8	6*N	8*N
Maximum Charging Current (A)	1		6.0/12.0	1	6.0/12.0	1			6.0/12.0		1		6.0/12.0	
Charging Voltage(Vdc)	27.4V±1%	41.1V±1%		41.1V ±1%		54.8±1%	82.2V±1%	109.6V±1%	82.2V±1%	109.6V±1%	82.2V±1%	109.6V±1%	82.2V±1%	109.6V±1%
Protect	Over-voltage(14.7v) /Low-voltage(10v)													
PROTECTION														
Overlo ad Capacity — Line Mode	105%-150%, 30s turn to bypass mode ; >150% 300ms turn to bypass mode													
Overlo ad Capacity — Battery Mode	105%-150%, exceed 30s shutdown ; >150% exceed 300ms shutdown													
INDICATORS														
LED & LCD Display	Load/Battery/Input/Output/Operating Mode Information													
ALARM														
Battery Mode	Sounding every 4 seconds													
Battery Low	Sounding every second													
Overload	Sounding every 0.5 second													
Fault	Continuously Sounding													
MANAGEMENT														
Smart RS-232/USB (Preferential)	External Modbus card supported by RS232,Software supports Windows Family,Linus,FreeBSD													
Intelligent Slot	SNMP (Standard or mini) independent to RS-232(Optional)													
ENVIRONMENT														
Operating Temperature	0 ～40													
Humidity Range	0～95% (Non-condensing)													
Altitude	< 1500m													
Noise Level	<50dB@ 1Meter													
PHYSICAL														
Dimension W×D×H (mm)	144×400×215					191×468×337								
Net Weight (kg)	11.3	13.7	5.9	13.9	6.2	21.9	26.9	29.6	10.6	10.8	27.4	30.1	11.1	11.3
STANDARDS														
Safety	IEC/EN62040-1													
EMC	IEC/EN62040-2													

UB

6-10kVA

UB 6-10K online tower UPS is suited for all business critical usage such as networks, data centers, banking and building automation. The UPS operates on the online double conversion principle offering protection from numerous power problems. It allows the flexible and simple setup of a parallel system. The ECO mode helps you save the electricity fee and maintenance bypass is convenient for maintenance.

General Features

- True double-conversion
- DSP technology guarantees high reliability
- N+X parallel redundancy
- Selectable quantity of battery for each group:16/18/20 pieces
- 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,USB,SNMP card(Optional), Relay card (Optional)
- Cold start

Technical Specification

MODEL	UB60	UB60L	UB100	UB100L
Capacity (VA/Watts)	6K / 5.4K		10K / 9K	
INPUT				
Nominal Voltage	220/230/240Vac(L+N+PE)			
Operating Voltage Range	120Vac-276Vac			
Operating Frequency Range	50Hz：45~55Hz, 60Hz：54~66Hz			
Power Factor	≥0.99			
Bypass Voltage Range	Max.voltage: 220V：+25%(Optional +10%,+15%,+20%)			
	230V：+20%(Optional +10%,+15%)			
	240V：+15%(Optional +10%)			
	Min. voltage: -45% (Optional -20%,-30%)			
ECO Range	Same as bypass			
Harmonic Distortion (THDi)	≤5%(100% non-linear load)			
OUTPUT				
Output Voltage	220/230/240Vac			
Power Factor	0.9			
Voltage Regulation	±1%			
Frequency — Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)			
Frequency — Bat. Mode	(50/60±0.1)Hz			
Crest Factor	3:01			
Harmonic Distortion (THDv)	≤2% with linear load			
	≤5% with non-linear load			
Waveform	Pure Sinewave			
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 0ms			
EFFICIENCY				
Efficiency	Up to 94%			
BATTERY				
Battery Voltage	Selectable Voltage: ±96/108/120Vdc			
Typical Recharge Time	6-8 hours (To 90% capacity)			
Charging Current	Maximum current 10A			
PROTECTION				
Overload — Line Mode	Load≤125%: last 5min;≤150%: last 1min;＞150% 200ms turn to bypass mode			
Overload — 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 Backup Time			
MANAGEMENT				
Communication Interface	RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)			
ENVIRONMENT				
Operating Temperature	0 ～40			
Storage Temperature	-25 ～55			
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	220×481×438
Net Weight (kg)	62	18	64	20
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,			
	IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			
BATTERY PACK				
Model	EXB±120V			
Battery type& Max.quantity	7Ah×40/9Ah×40			
Dimensions W×D×H (mm)	250×502×616			
Net Weight (kg)	125.8/138			

UBR

1-3kVA

UBR is small capacity UPS, the output factor is 0.9, and power range is from 1kVA to 3kVA. Deployment is very flexible, tower and rack-mounted can be configured according to customer's requirement. When UPS is on battery mode, it can shut down unnecessary load and extend the backup time of the critical load.

General 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

Technical Specification

MODEL		UBR 10	UBR Oct-36	UBR 10L	UBR 10L-36	UBR 15	UBR 15L	UBR 20	UBR 20-72	UBR 20L	UBR 20L-72	UBR 30	UBR 30L
Capacity (VA/Watts)		1000VA/900W				1500VA/1350W		2000VA/1800W				3000VA/2700W	
INPUT													
Nominal Voltage		208/ 220/230/240Vac(L+N+PE)											
Operating Voltage		110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,											
Range		140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load											
Operating Frequency Range		50Hz : 45~55Hz, 60Hz : 55-65Hz Auto Sensing											
Power Factor		> 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load											
OUTPUT													
Output Voltage		208/220/230/240Vac:230Vac(Default)											
Power Factor		0.9											
Voltage Regulation		±1%											
Frequency	Synchronized Range	45-55Hz ±0.02Hz@ 50Hz, 55-65Hz ±0.02Hz@60Hz											
	Battery Mode & None Synchronized Range	(50/60±0.02)Hz											
Crest Factor		3:01											
Harmonic Distortion		≤3% with linear load											
(THDv)		≤5% with non-linear load											
Wave form		Pure Sinewave											
Transfer time		Utility to Battery : 0ms; Utility to Bypass: 4ms(Typical)											
EFFICIENCY													
AC Mode		88%				88%		89%				90%	
Battery Mode		84%	85%	84%	85%	85%		85%	86%	85%	86%	87%	
ECO Mode		94%											
BATTERY													
Battery Type		12V/9AH	12V/7AH	12V		12V/9AH	12V	12V/9AH	12V/7AH	12V		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	1	6.0/12.0		1	6.0/12.0	1	1	6.0/12.0		1	6.0/12.0
Charging Voltage(Vdc)		27.4±1%	41.1±1%	27.4±1%	41.1±1%	41.1±1%		54.8±1%	82.2±1%	54.8±1%	82.2±1%	82.2±1%	
Protect		Over-voltage(14.7v) /Low-voltage(10v)											
PROTECTION													
Overload Capacity	Line Mode	105%-150%, 30s turn to bypass mode ; >150% 300ms turn to bypass mode											
	Battery Mode	105%-150%, exceed 30s shutdown ; >150% exceed 300ms shutdown											
INDICATORS													
LED & LCD Display		Load/Battery/Input/Output/Operating Mode Information											
ALARM													
Battery Mode		Sounding every 4 seconds											
Battery Low		Sounding every second											
Overload		Sounding every 0.5 second											
Fault		Continuously Sounding											
MANAGEMENT													
Smart RS-232/USB (Preferential)		External Modbus card supported by RS232,Software supports Windows Family,Linus,FreeBSD											
Intelligent Slot		SNMP (Standard or mini) independent to RS-232(Optional)											
ENVIRONMENT													
Operating Temperature		0 ~40											
Humidity Range		0~95% (Non-condensing)											
Altitude		< 1500m,											
Noise Level		<50dB@ 1Meter											
PHYSICAL													
Dimension W×D×H (mm)		440×430×86.5						440×572×86.5	440×696×86.5	440×572×86.5		440×696×86.5	440×572×86.5
Net Weight (kg)		13.2	15.7	7.7	7.8	15.8	7.9	21.5	27.6	10.7	10.8	28.5	11.2
STANDARDS													
Safety		IEC/EN62040-1											
EMC		IEC/EN62040-2											

UBR

6-10kVA

UBseriesUPSisasingle-phaseuninterruptiblepowersupplywithdouble-conversiontechnology and DSP control. It delivers a rated power of 6-10kva and can be used in both tower and rack configurations. The patented minic LCD screen can be rotated according to different type of deployment.

General Features

- True double-conversion
- Rack-mounted and floor-standing tower can be convertible
- Patented Minic LCD of which content can be rotated according 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
- 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
- PDU is convenient for connecting load
- Communications:RS-232,USB,SNMP card(Optional), Relay card (Optional)
- Cold start

Technical Specification

MODEL		UBR60L	UBR100L
Capacity (VA/Watts)		6K / 5.4K	10K / 9K
INPUT			
Nominal Voltage		220/230/240Vac(L+N+PE)	
Operating Voltage Range		120Vac-276Vac	
Operating Frequency Range		50Hz：45~55Hz，60Hz：54~66Hz	
Power Factor		≥0.99	
Bypass Voltage Range		Max.voltage: 220V：+25%(Optional +10%,+15%,+20%)	
		230V：+20%(Optional +10%,+15%)	
		240V：+15%(Optional +10%)	
		Min. voltage: -45% (Optional -20%,-30%)	
ECO Range		Same as bypass	
Harmonic Distortion (THDi)		≤5%(100% non-linear load)	
OUTPUT			
Output Voltage		220/230/240Vac	
Power Factor		0.9	
Voltage Regulation		±1%	
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)	
	Bat. Mode	(50/60±0.1)Hz	
Crest Factor		3:01	
Harmonic Distortion		≤2% with linear load	
(THDv)		≤5% with non-linear load	
Waveform		Pure Sinewave	
Transfer Time		Utility to Battery : 0ms; Utility to Bypass: 0ms	
EFFICIENCY			
Efficiency		Up to 94%	
BATTERY			
Battery Voltage		Optional Voltage: ±96/108/120Vdc	
Typical Recharge Time		6-8 hours (To 90% capacity)	
Charging Current		Maximum current 10A;	
PROTECTION			
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	
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	
Reading On The LCD		Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner	
Display		Temperature & Remaining Battery Backup Time	
MANAGEMENT			
Communication Interface		RS232,USB, Parallel Port, SNMPcard(Optional), Relay card (Optional)	
ENVIRONMENT			
Operating Temperature		0 ～40	
Storage Temperature		-25 ～55	
Humidity Range		0～95% (Non-condensing)	
Altitude		< 1500m	
Noise Level		<55dB	
PHYSICAL			
Dimension W×D×H (mm)		443×580×131 (3U)	
Net Weight (kg)		19	20
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,	
		IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	
BATTERY PACK			
Model		EXBR±120V	
Battery type& Max.quantity		7Ah×20/9Ah×20	
Dimensions W×D×H (mm)		443×720×131 (3U)	
Net Weight (kg)		65/75	

UC
10-20kVA

UC100-200 series UPS is a three-phase in and one-phase out high frequency tower-mounted UPS with an output power factor up to 0.9 and a strong load capacity. It adopts leading DSP online double conversion technology to provide high-level power protection. It supports flexible battery quantity configuration, flexible redundancy design and compatible to the generator to fit diverse environment. It has been widely used in small and medium IDC machine room, control center, industry process control fields and so on.

General Features

- True double-conversion
- DSP technology guarantees high reliability
- N+X parallel redundancy
- Compatible with three-phases and single-phase input
- Selectable quantity of battery for each group:16/18/20 pieces
- 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,USB,Parallel card(Optional),SNMP card(Optional), Relay card (Optional)
- Cold start

Technical Specification

MODEL		UC100	UC100L	UC150L	UC200L
Capacity (VA/Watts)		10K / 9K		15K / 13.5K	20K / 18K
INPUT					
Nominal Voltage		380/400/415Vac(3Ph+N+PE) or 220/230/240Vac(L+N+PE)			
Operating Voltage Range		208~478Vac or 120VAC-276Vac			
Operating Frequency Range		50Hz：45~55Hz, 60Hz：54~66Hz			
Power Factor		≥0.99			
Bypass		Max.voltage: 220V：+25%(Optional +10%,+15%,+20%)			
Voltage Range		230V：+20%(Optional +10%,+15%) 240V：+15%(Optional +10%) Min. voltage: -45% (Optional -20%,-30%)			
ECO Range		Same as bypass			
Harmonic Distortion (THDi)		≤5%(100% non-linear load)			
OUTPUT					
Rated Voltage		220/230/240Vac			
Power Factor		0.9			
Voltage Regulation		±1%			
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)			
	Bat. Mode	(50/60±0.1)Hz			
Crest Factor		3:01			
Harmonic		≤2% with linear load			
Distortion (THD)		≤5% with non-linear load			
Waveform		Pure Sinewave			
Transfer Time		Utility to Battery : 0ms; Utility to Bypass: 0ms			
EFFICIENCY					
Efficiency		Up to 94%		Up to 94.5%	
BATTERY					
Battery Voltage		Selectable Voltage: ±96/108/120Vdc			
Typical Recharge Time		6-8 hours (To 90% capacity)			
Charging Current		Maximum current 10A			
PROTECTION					
Overload	Line Mode	Load≤125%: last 5min;≤150%: last 1min;＞150% 200ms turn to bypass mode			
	Bypass Mode	63A(Input breaker)		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					
Audible & Visual Alarms		Line Failure, Battery Low, Overload, System Fault			
Status LED &		Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low,			
LCD Display		Battery Bad, Overload & UPS Fault			
Parameters On		Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level,			
The LCD Panel		Inner Temperature & Remaining Battery Backup Time			
MANAGEMENT					
Communication Interface		RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)			
ENVIRONMENT					
Operating Temperature		0 ～40			
Storage Temperature		-25 ～55			
Humidity Range		0～95% (Non-condensing)			
Altitude		< 1500m			
Noise Level		<55dB		<58dB	
PHYSICAL					
Dimension W×D×H (mm)		250×597×655	250×502×616		
Net Weight (kg)		76	35	45	46
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, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			

UCR

6-10kVA

UCR60-100 series UPS is a Rack/Tower convertible UPS solutions which integrates true double-conversion design, DSP technology to provide clean high-level quality power as well as better voltage conditions to different application. What›s more, with N+X parallel redundancy, it can achieve higher availability and MTBF (mean time between failure) to fully protect mission-critical devices.

General Features

- True double-conversion
- Rack-mounted and floor-standing tower can be convertible
- LCD panel 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
- 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,USB,Parallel card(Optional),SNMP card(Optional), Relay card (Optional)
- Cold start

Technical Specification

MODEL		UCR60L	UCR100L
Capacity (VA/Watts)		6K / 5.4K	10K / 9K
INPUT			
Nominal Voltage		380/400/415Vac(3Ph+N+PE) or 220/230/240Vac(L+N+PE)	
Operating Voltage Range		208~478Vac or 120VAC-276Vac	
Operating Frequency Range		50Hz：45~55Hz，60Hz：54~66Hz	
Power Factor		≥0.99	
Bypass Voltage		Max.voltage: 220V：+25%(Optional +10%,+15%,+20%)	
Range		230V：+20%(Optional +10%,+15%) 240V：+15%(Optional +10%) Min. voltage: -45% (Optional -20%,-30%)	
ECO Range		Same as bypass	
Harmonic Distortion (THDi)		≤5%(100% non-linear load)	
OUTPUT			
Output Voltage		220/230/240Vac	
Power Factor		0.9	
Voltage Regulation		±1%	
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)	
	Bat.Mode	(50/60±0.1)Hz	
Crest Factor		3:01	
Harmonic		≤2% with linear load	
Distortion (THD)		≤5% with non-linear load	
Waveform		Pure Sinewave	
Transfer Time		Utility to Battery : 0ms; Utility to Bypass: 0ms	
EFFICIENCY			
Efficiency		Up to 94%	
BATTERY			
Battery Voltage		Selectable Voltage: ±96/108/120Vdc	
Typical Recharge Time		6-8 hours (To 90% capacity)	
Charging Current		Maximum current 10A	
PROTECTION			
Overload	Line Mode	Load≤125%: last 5min;≤150%: last 1min;＞150% 200ms turn to bypass mode	
	Bypass Mode	40A(Input breaker)	63A(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 Backup Time	
MANAGEMENT			
Communication Interface		RS-232,USB,Parallel card, SNMP card(Optional), Relay card (Optional)	
ENVIRONMENT			
Operating Temperature		0 ～40	
Storage Temperature		-25 ～55	
Humidity Range		0～95% (Non-condensing)	
Altitude		< 1500m	
Noise Level		<55dB	
PHYSICAL			
Dimension W×H×D (mm)		443×131×580(3U)	
Net Weight (kg)		30	31
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, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	
BATTERY PACK			
Model		EXBR±120V	
Battery type& Max.quantity		7Ah×20/9Ah×20	
Dimensions W×H×D (mm)		443×131×720(3U)	
Net Weight (kg)		67	

UD

10-80kVA

UD series online double conversion UPS System adopts advanced DSP control and N+X redundancy design to enhance the reliability. With high power factor (PF) and ECO mode operation for energy saving, UD series is the cost-effective choice in the industry. It has been widely used for server rooms, personal computers, data warehouses, medical clinics, industrial application and office facilities.

General Features

- True double-conversion
- Real-time digital signal processor (DSP) control
- 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,USB,SNMP card(Optional), Relay card (Optional)
- Cold start

Technical Specification

MODEL		UD10 / UD10L	UD15 / UD15L	UD20 / UD20L	UD30 / UD30L	UD40L	UD60L	UD80L
Capacity (VA/Watts)		10K / 9K	15K / 13.5K	20K / 18K	30K / 27K	40K / 36K	60K / 54K	80K / 72K
INPUT								
Nominal Voltage		380/400/415Vac(3Ph+N+PE)						
Operating Voltage Range		208~478Vac@half load; 305~478Vac@full load						
Operating Frequency Range		50Hz：45~55Hz，60Hz：54~66Hz						
Power Factor		≥0.99						
		Max.voltage: 220V：+25%(Optional +10%,+15%,+20%)						
Bypass Voltage Range		230V：+20%(Optional +10%,+15%)						
		240V：+15%(Optional +10%)						
		Min. voltage: -45% (Optional -10%, -20%,-30%)						
ECO Range		Same as bypass						
Harmonic Distortion (THDi)		≤3%(100% non-linear load)						
OUTPUT								
Output Voltage		380/400/415Vac(3Ph+N+PE)						
Power Factor		0.9						
Voltage Regulation		±1%						
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(Optional)						
	Bat. Mode	50/60(1±0.1%)Hz						
Crest Factor		3:01						
Harmonic Distortion (THDv)		≤2% with linear load						
		≤5% with non-linear load						
Waveform		Pure Sinewave						
Transfer Time		Utility to Battery : 0ms; Utility to Bypass: 0ms						
EFFICIENCY								
Efficiency		95%						
BATTERY								
Battery	Standard unit	±120Vdc (20pcs 12V9AH)	±120Vdc (2x20pcs 12V9AH)		±120Vdc (3x20pcs 12V9AH)	N/A		
Voltage	Long run unit	Selectable Voltage:±96V/±108V/±120Vdc				Selectable Voltage:±192V/±204V/±216V/		
Charging	Standard unit	1.35	2.7		4.05	N/A		
Current (A)	Long run unit	Max.current 10A			Max.current 15A		Max.current 30A	
PROTECTION								
Overload	Line Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, ≥150% turn to bypass mode immediately						
	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)	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								
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						
MANAGEMENT								
Communication Interface		RS-232,RS-485,USB,Parallel card, SNMP card(Optional), Relay card (Optional),Battery temperature sentor(optional)						
ENVIRONMENT								
Operating Temperature		0～40						
Storage Temperature		-25～55						
Humidity Range		0～95% (Non-condensing)						
Altitude		< 1500m						
Noise Level		<55dB			<58dB		<63dB	
PHYSICAL								
Dimension W×D×H (mm)		250×828×868					360×828×868	
Net Weight (kg)		115/57	170/63	171/64	223/71	73	118	122
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,						
		IEC61000-4-5,IEC61000-4-6,IEC61000-4-8						

Line Interactive UPS- UA Family

400-3000VA

UA series line interactive UPS designed with excellent charging mode. It not only offers great comprehensive power protection against surges and spikes, but also provides pure voltage with AC voltage stabilizer. It is easy to install&operate. With compact size and built-in self-diagnostic function, It is an ideal backup power for termianl equipment, PC, station, SOHO equipments.

General Features

- 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)

Technical Specification

Model	UA40	UA60	UA80	UA100	UA120	UA150	UA200	UA240	UA300
Capacity (VA/Watts)	400 / 240	600/ 360	800 /480	1000/ 600	1200/ 720	1500 / 900	2000 / 1200	2400/ 1440	3000 / 1800
INPUT									
Nominal Input Voltage	110/120Vac or 220/230/240 Vac								
Operating Voltage Range	81-145Vac/162-290 Vac								
Operating FrequencyRange	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 ms, 10ms max.								
BATTERY									
Battery Type & Number	12V/4.5Ah x 1	12V/7Ah x 1	12V/9Ah x 1	12V/7Ah x 2	12V/7Ah x2	12V/9Ah x 2	12V/9Ah x 2	12V/7Ah x 4	12V/9Ah x 4
Typical Recharge Time	6-8 hours (To 90% capacity)								
PROTECTION									
Full Protection	Overload and overcharge protection								
INDICATORS									
Indicators	AC Mode, Battery Mode, Load Level, Battery Level							AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, Battery Low	
ALARM									
Battery Mode	Sounding every 10 seconds								
Battery Low	Sounding every second								
Overload	Sounding every 0.5 second								
Battery Replacement Alarm	Sounding every 2 seconds								
Fault	Continuously sounding								
Management									
USB & RS-232 port(Optional)	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC								
Environment									
Operating Temperature	0- 40°C								
Humidity Range	0-95 % (Non-condensing)								
Noise Level	<40db (1 meter from surface)								
PHYSICAL									
Dimension, W x D x H (mm)	101×298×142			149.3×338×162		158×380×198		144×432.5×207	
Net Weight (kg)	3.55	4.25	4.9	7.8	8	11.1	11.5	20	23
STANDARDS									
Safety	IEC/EN62040-1;IEC/EN60950-1								
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8								

شرکت مهندسی تال ایران (تالیران) سهامی خاص

دفتر مرکزی: تهران ۱۵۱۷۹۴۴۸۴۹، بلوار آفریقا ، پایین تر از اتوبان حقانی، نبش خیابان ۲۵ ، پلاک ۶۲ ، طبقه ۴ ، واحدD4
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کارخانـــه: شـهریار ۳۱۶۴۳۴۳۵۹۳، صفادشـت ، جنـب مخابـرات و شـهرداری، انتهـای خیابـان تـــختی ، خیابـان تـــالیران (صنایـع غـذای کامبیـز) ، سـمت چـپ
تلفن: ۴۴ الی ۶۵۴۳۶۳۴۰ - ۰۲۱
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