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UPS

شرکت مهندسی تالیران(سهامی خاص)

TALIRAN Engineering PJS Co

www.taliran.com

# 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 | | | | | | | | | | | | | |
| Frequency — 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** | | | | | | | | | | | | | | |
| Overload Capacity — Line Mode | 105%-150%, 30s turn to bypass mode ; >150% 300ms turn to bypass mode | | | | | | | | | | | | | |
| Overload 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 | | | | | | | | | | | |
| Frequency — 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 | | | | | | | | | | | |
| Overload 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) | 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) | |
| Frequency — 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 | Loads≤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 | |
| Reading On The LCD Display | Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner 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%) <br> 240V : +15%(Optional +10% ) <br> 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) | | | |
| Frequency — 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 <br> turn to bypass mode | | | |
| Overload — 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 & 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 | | <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, <br> 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%) <br> 240V：+15%(Optional +10% ) <br> 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 (THD) | | ≤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 | |
| | 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, <br> 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) | | | | | | |
| Frequency — 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 | | | | | | |
| Overload — Bat. Mode | Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, ≥150% shut down UPS immediately | | | | | | |
| Overload — 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 | | | | | | | | |

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