



–Data Center Product Line –

KSTAR Classic Tower & Convertible UPS Series

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Version number: KSD/C&C 2023-06

KSTAR



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)
- 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
5. RJ45



Rear Panel

Technical Specifications

| Model | UA40 | UA60 | UA80 | UA100 | UA120 | UA150 | UA200 |
|-----------------------------------|---|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Capacity(VA/Watts) | 400 / 240 | 600 / 360 | 800 / 480 | 1000 / 600 | 1200 / 720 | 1500 / 900 | 2000 / 1200 |
| INPUT | | | | | | | |
| Nominal Input Voltage | 110/120 Vac or 220/230/240 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 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 | 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 x 2 | 12 V / 9 Ah x 2 | 12 V / 9 Ah x 2 |
| Typical Recharge time | 6~8 hours (To 90% capacity) | | | | | | |
| PROTECTION | | | | | | | |
| Full Protection | Overload and overcharge protection | | | | | | |
| INDICATORS | | | | | | | |
| LED (LED version) | AC Mode, Battery Mode, Load Level, Battery Level | | | | | | |
| LCD (LCD version) | 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℃ | | | | | | |
| Humidity Range | 0~95 % (Non-condensing) | | | | | | |
| Noise Level | <40dB (1 meter from surface) | | | | | | |
| PHYSICAL | | | | | | | |
| Dimension, W×D×H (mm) | 101×298×142 | | | 149.3×338×162 | | 158×380×198 | |
| Net Weight (kg) | 3.55 | 4.25 | 4.9 | 7.8 | 8 | 11.1 | 11.5 |
| 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 | | | | | | |

Specifications are subject to change without prior notice.



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)
- Fast charging capacity
- Auto charging at off mode
- Auto restart while AC is recovering

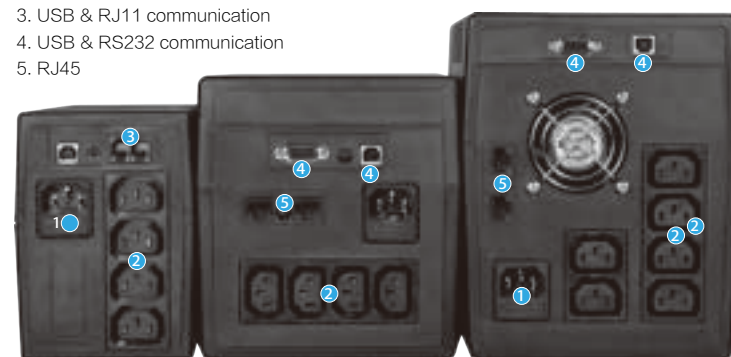


Optional socket



Two kinds of color LCD display

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



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 | 162~290 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 ms, 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 overcharge protection | |
| INDICATORS | | |
| LCD Display | 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℃ | |
| Humidity Range | 0~95% (Non-condensing) | |
| Noise Level | <40dB (1 meter from surface) | |
| PHYSICAL | | |
| Dimension, W × D × H (mm) | 144 × 432.5 × 207 | |
| Net Weight (kg) | 20 | 23 |
| STANDARDS | | |
| Safety | IEC/EN62040-1;IEC/EN60950-1 | |
| EMC | IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8 | |

Specifications are subject to change without prior notice.



Features

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



Control Panel
Up to 50 items set by LCD

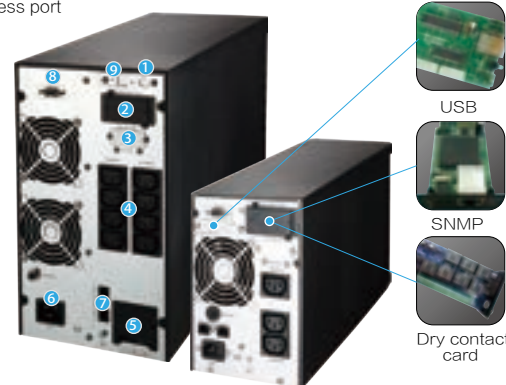
- 1.EPO port
- 2.Intelligent slot for SNMP card,dry contact card etc.
- 3.External battery cabinet connector
- 4.Output slots including two segments
- 5.Output terminals
- 6.Input slot
- 7.RJ45 surge suppress port
- 8.RS232 port
- 9.USB port



Battery pack.
(Optional)



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



Rear Panel

Technical Specifications

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

Specifications are subject to change without prior notice.

Technical Specifications

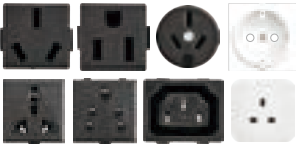
| MODEL | EXB+24V | EXB+36V | EXB+48V | EXB+72V | EXB+96V |
|----------------------------|--|----------|-------------|----------|-----------|
| VOLTAGE | +24V | +36V | +48V | +72V | +96V |
| CHARGER INPUT | | | | | |
| Voltage Range | 150~285Vac | | | | |
| Frequency | 50/60Hz | | | | |
| Phase | Single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

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



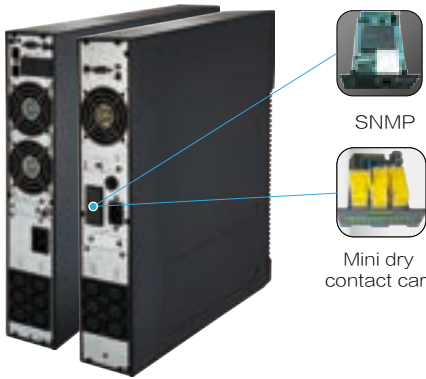
Optional socket



Multifunctional bracket



Easy for maintenance, hot-swappable battery



Rear Panel



Rack-Tower convertible
Two directions LCD display
Battery pack (Optional)

Technical Specifications

| MODEL | | UBR10 | UBR10-36 | | UBR10L | UBR10L-36 | | UBR15 | UBR15L | UBR20 | UBR20-72 | UBR20L | UBR20L-72 | UBR30 | UBR30L | | |
|--------------------------------|--|--|----------|----------|----------|--------------|----------|--------------|--------------|--------------|----------|--------------|--------------|--------------|--------|--|--|
| Capacity (VA/Watts) | | 1000VA/900W | | | | 1500VA/1350W | | | | 2000VA/1800W | | | | 3000VA/2700W | | | |
| INPUT | | | | | | | | | | | | | | | | | |
| Nominal Voltage | | 208/220/230/240Vac(L+N+PE) | | | | | | | | | | | | | | | |
| Operating Voltage Range | | 110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load | | | | | | | | | | | | | | | |
| Operating Frequency Range | | 50Hz: 45~55Hz, 60Hz: 55~65Hz Auto Sensing | | | | | | | | | | | | | | | |
| Power Factor | | > 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load | | | | | | | | | | | | | | | |
| OUTPUT | | | | | | | | | | | | | | | | | |
| Output Voltage | | 208/220/230/240Vac:230Vac(Default) | | | | | | | | | | | | | | | |
| Power Factor | | 0.9 | | | | | | | | | | | | | | | |
| Voltage Regulation | | ± 1% | | | | | | | | | | | | | | | |
| Frequency | Synchronized Range | 45~55Hz ± 0.02Hz@ 50Hz, 55~65Hz ± 0.02Hz@60Hz | | | | | | | | | | | | | | | |
| | Battery Mode & None Synchronized Range | (50/60± 0.02)Hz | | | | | | | | | | | | | | | |
| Crest Factor | | 3:1 | | | | | | | | | | | | | | | |
| Harmonic Distortion (THDv) | | ≤3% with linear load | | | | | | | | | | | | | | | |
| | | ≤5% with non-linear load | | | | | | | | | | | | | | | |
| Waveform | | Pure Sinewave | | | | | | | | | | | | | | | |
| Transfer time | | Utility to Battery : 0ms; Utility to Bypass: 4ms(Typical) | | | | | | | | | | | | | | | |
| EFFICIENCY | | | | | | | | | | | | | | | | | |
| AC Mode | | 88% | | | | 88% | | 89% | | | | 90% | | | | | |
| Battery Mode | | 84% | 85% | 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) | | 1.0 | 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 | | | | |
| 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% | | 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 | | | | | | | | | | | | | | | |

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 | 150~285Vac | | | | | | | |
| Frequency | 50/60Hz | | | | | | | |
| Phase | Single phase with ground | | | | | | | |
| Current(A) | 0.4 | | 0.6 | | 0.8 | | 1.2 | |
| Protection | Resettable circuit breaker | | | | | | | |
| CHARGER OUTPUT | | | | | | | | |
| Voltage (Vdc) | 27.4±0.3 | | 41.1±0.6 | | 54.8±0.6 | | 82.2±0.9 | |
| Current(A) | 2A(Max) | | | | | | | |
| Protection | Fuse | | | | | | | |
| BATTERY | | | | | | | | |
| Battery Type | 12V 7AH/9AH; Sealed Valve Regulated Lead-Acid Battery (VRLA) ;Maintenance free | | | | | | | |
| Battery numbers per string | 2 | | 3 | | 4 | | 6 | |
| Battery string number | 2 | | | | | | | |
| Recharge time | 8 hours to 90% capacity | | | | | | | |
| Protection | 60A fast fuse | | | | | | | |
| Leakage current | <100uA | | | | | | | |
| PHYSICAL | | | | | | | | |
| Dimension W×D×H (mm) | 440×430×86.5 | | | | 440×572×86.5 | | 440×696×86.5 | |
| Net Weight (kg) | 17.3 | | 22.3 | | 28.4 | | 40.8 | |
| INDICATORS | | | | | | | | |
| LED Panel | Charging LED, Battery testing LED | | | | | | | |
| ENVIRONMENT | | | | | | | | |
| Operating Temperature | 0~40℃ | | | | | | | |
| Humidity Range | 0~90% (Non-condensing) | | | | | | | |
| Noise Level | <40dB@ 1Meter | | | | | | | |
| STANDARDS | | | | | | | | |
| Safety | IEC/EN62040-1 | | | | | | | |
| EMC | IEC/EN62040-2 | | | | | | | |

Specifications are subject to change without prior notice.



Features

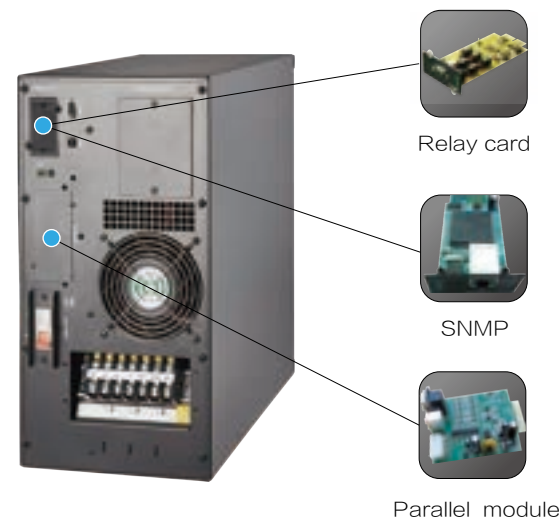
- True double-conversion
- DSP technology guarantees high reliability
- N+X parallel redundancy
- Selectable quantity of battery for each group:16/18/20 pieces
- 3-stage charging design optimizes battery performance
- ECO mode operation for energy saving
- Self-diagnosis at startup
- Emergency power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



Battery Cabinets.
(Optional)



Control Panel



Rear Panel

Technical Specifications

| 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 | 120~276Vac | | | |
| 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 | | | |
| Crest Factor | (50/60 ± 0.1)Hz | | | |
| Harmonic Distortion (THDv) | 3:1 | | | |
| | ≤2% with linear load | | | |
| Waveform | ≤5% with non-linear load | | | |
| | 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) | 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) | 125.6/138 | | | |

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
 - 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)
 - 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 Voltage | | 220/230/240Vac(L+N+PE) | |
| Operating Voltage Range | | 120~276Vac | |
| 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 | | 3:1 | |
| 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 | | 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 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 | |

Specifications are subject to change without prior notice.



Features

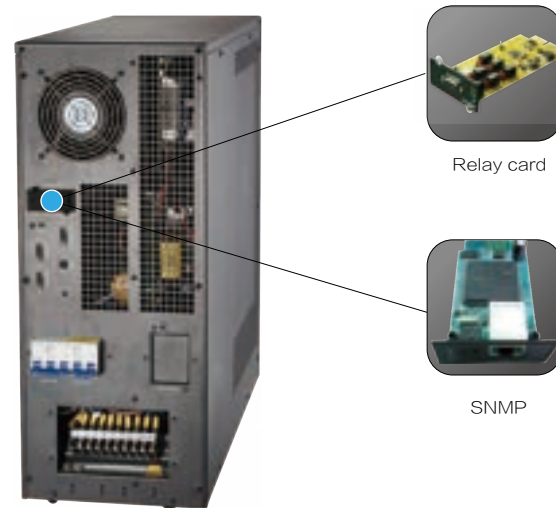
- True double-conversion
- DSP technology guarantees high reliability
- N+X parallel redundancy
- Compatible with 3 phases and single phase input
- Selectable quantity of battery for each group:16/18/20 pieces
- 3-stage charging design optimizes battery performance
- ECO mode operation for energy saving
- 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



Battery Cabinets.
(Optional)



Control Panel



Rear Panel

Technical Specifications

| 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 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 | | | | | |
| 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 | | 3:1 | | | |
| 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% | | 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 & 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, 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) | | 112 | | | |

- 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.



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



Technical Specifications

| 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 120~276Vac | |
| 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) (50/60 ± 0.1)Hz | |
| | Bat. Mode | | |
| Crest Factor | | 3:1 | |
| 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 | |
| | 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 × D × H (mm) | | 443 × 580 × 131(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 × D × H (mm) | | 443 × 720 × 131(3U) | |
| Net Weight (kg) | | 67 | |

- 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.



Features

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



Rear Panel

Technical Specifications

| MODEL | | UD10 / UD10L | UD15 / UD15L | UD20 / UD20L | UD30 / UD30L | UD40L |
|-----------------------------|---------------|--|---------------------------|--------------------|---------------------------|--|
| Capacity (VA/Watts) | | 10K / 9K | 15K / 13.5K | 20K / 18K | 30K /27K | 40K /36K |
| INPUT | | | | | | |
| Nominal 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 | | | | |
| Bypass Voltage Range | | Max.voltage: 220V: +25%(Optional +10%,+15%,+20%) | | | | |
| | | 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 | | 3:1 | | | | |
| 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 Voltage | Standard unit | ± 120Vdc (20pcs 12V9AH) | ± 120Vdc (2x20pcs 12V9AH) | | ± 120Vdc (3x20pcs 12V9AH) | N/A |
| | Long run unit | Selectable Voltage: ± 96V/ ± 108V/ ± 120Vdc | | | | Selectable Voltage: ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240Vdc |
| Charging Current (A) | Standard unit | 1.35 | 2.7 | | 4.05 | N/A |
| | Long run unit | Max.current 10A | | | Max.current 20A | Max.current 20A |
| 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) |
| 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,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 | <70dB |
| PHYSICAL | | | | | | |
| Dimension W × D × H (mm) | | 250x828x868 | | | | |
| Net Weight (kg) | | 115/57 | 170/63 | 171/64 | 223/71 | 73 |
| 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 | | | | |

Specifications are subject to change without prior notice.