



–Data Center Product Line –

## KSTAR **Classic Tower & Convertible UPS Series**

Powering the world future  
– [www.kstarpower.com](http://www.kstarpower.com)

**KSTAR**  
— Stock code: 002518 —



## 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,<br>IEC61000-4-5,IEC61000-4-6,IEC61000-4-8                            |                    |
| BATTERY PACK               |             |  |                    |
| Model                      |             | E&BR ± 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.