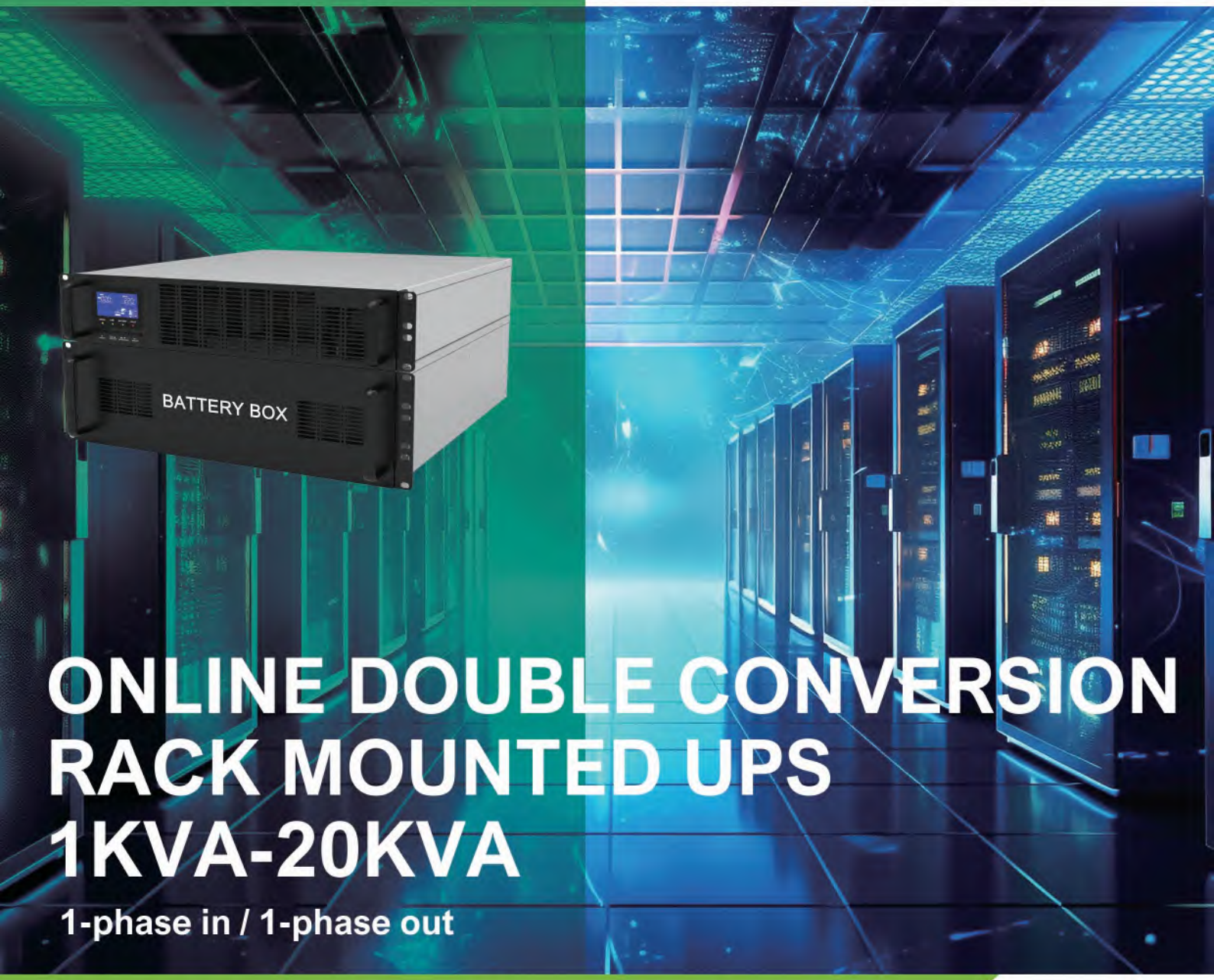
BKPOWER
www.bkpower.cn

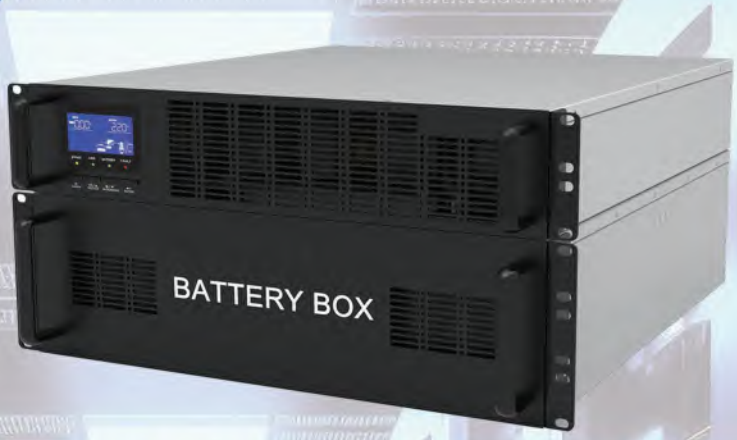



# ONLINE DOUBLE CONVERSION RACK MOUNTED UPS 1KVA-20KVA

**1-phase in / 1-phase out**

TO BE GLOBAL LEADER IN POWER SOLUTIONS

SHENZHEN BKPOWER CO., LTD




## Product Overview

The BKOWER R series is a rack mounted online dual conversion UPS designed specifically for small and medium-sized enterprises, network servers, and small servers.

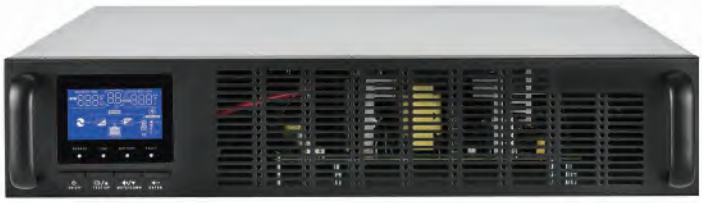
It adopts an advanced dual conversion topology structure to ensure clean and stable power supply in any situation, effectively isolating power interference and protecting your critical equipment from power issues.

## Applications

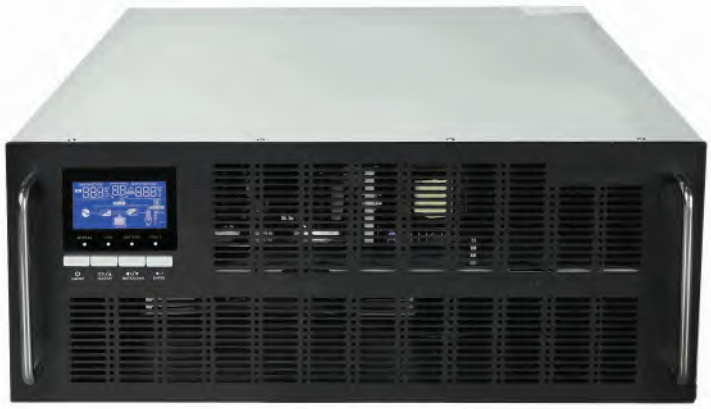
- **Commerce/Banking:** Educational, commercial, and banking office equipment.
- **SME Server Rooms:** Network server rooms, precision instruments, and equipment.
- **Monitoring and Automation Systems:** Surveillance systems, power railway signal systems, etc.
- **Offices:** Printers, fax machines, access control, and attendance devices.
- **Branches of Large Enterprises:** Companies and enterprises. Homes: Desktop computers, home theaters, household appliances, etc.
- **Supermarkets:** Cash registers, surveillance equipment, etc.

## Technical Advantages

- **Pure and Stable Power Supply**
  Effectively isolates mains interference through double-conversion technology, providing continuous and stable power to protect equipment from power issues.
- **Instant Switching, Continuous Operation**
  Zero transfer time during mains failures ensures continuous equipment operation, preventing data loss and equipment damage.
- **Efficient and Energy-Saving**
  High-frequency rectification technology enhances energy utilization efficiency and reduces operational costs, helping you save energy and reduce expenses.
- **Strong Adaptability, Wide Application**
  Suitable for various application scenarios, meeting the diverse needs of users, and providing reliable power protection in commercial, industrial, and home environments.



1KVA~6KVA



10KVA~20KVA

## Product Features

- **Complete Isolation of Mains Interference**
  Advanced double-conversion technology converts AC to DC and back to AC, effectively suppressing various mains interferences such as surges and voltage fluctuations.
- **Zero Transfer Time**
  Instantly switches from normal mode to battery mode during mains failures, ensuring uninterrupted power supply and protecting equipment from power issues.
- **High Power Quality**
  Stable output voltage and frequency with pure sine wave output, meeting the requirements of high power quality equipment and ensuring stable operation.
- **Extended Battery Life**
  Low battery discharge probability, only discharging when mains input voltage exceeds specified limits or fails, prolonging battery service life.
- **High Reliability**
  Independent input terminals for rectifier and bypass enhance UPS fault tolerance and system reliability.
- **High Efficiency**
  High-frequency rectification technology improves energy utilization efficiency and reduces operational costs.
- **Robust Materials**
  Three-proofing coating technology protects PCBA with superior insulation, moisture resistance, leakage resistance, shock resistance, dust resistance, corrosion resistance, aging resistance, mold resistance, component looseness resistance, and corona resistance, ensuring stable operation in various environments.
- **Strict Production Process**
  Stringent quality control from SMT, insertion, assembly to production line testing, burn-in testing, quality inspection, and packaging ensures product quality.

## Specifications

| Model | | R11-1KL | R11-2KL | R11-3KL | R11-6KL |
|---|---|---|---|---|---|
| Capacity | KVA/KW | 1KVA/900W | 2KVA/1.8KW | 3KVA/2.7KW | 6KVA/5.4KW |
| AC Input | Phase | Single phase (L/N+PE) | | | |
| | Nominal Voltage | HV: 208/220/230/240Vac / LV:100/110/120/127Vac | | | |
| | Frequency | 50/60Hz | | | |
| | Voltage Range | HV: 110~285VAC±5VAC / LV: 55-145Vac±3VAC | | | |
| | Frequency Range | (40~70)±0.5Hz | | | |
| | Power Factor | >0.99 | | | |
| | Bypass Voltage Range | HV: 180~265VAC×(1±3%) / LV: 80~140VAC×(1±3%) | | | |
| Battery Input | Nominal Voltage | 24V | 48V | 72V | 144V |
| | Battery Capacity | 12V/7AH | 12V/7AH | 12V/7AH | 12V/7AH |
| | Battery Quantity | 2pcs | 4pcs | 6pcs | 12pcs |
| | Backup Time | Half loaded≥8minutes,Full loaded ≥3minutes(standard) | | | |
| | Battery Charger Time | Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time) | | | |
| AC Output | Phase | Single phase (L/N+PE) | | | |
| | Inverter Mode Output Voltage | HV:200V/208/220/230/240Vac±2%, LV:100/110/120/127Vac±2% | | | |
| | Waveform | Sine Wave | | | |
| | Harmonic Distortion | THD<2% (linear load), THD<7% (nonlinear load) | | | |
| | Frequency | 50/60±4Hz (Sync mode), 50/60Hz±1% (Fix Freq. mode) | | | |
| | Overload Capacity | 105 ～ 125%≥ 60s,126 ～ 150%≥30s The recover point is 70% | | | |
| | Transfer Time | Battery <—> Line Mode :0ms | | | |
| Efficiency | Line Mode | 86% | 86% | 87% | 88% |
| | Battery Mode | 85% | 86% | 87% | 88% |
| Communications | | RS232 RS485(optional), Dry contact(optional), Network Card(Option) | | | |
| Alarm Function | | AC/DC input under abnormal, overload condition and Inverter problems | | | |
| Protection Function | | AC input or output above or below the range of voltage, overload, over temperature and short circuit protection | | | |
| Noise | | <50dB | | | <55dB |
| Dimensions (W×H×L) MM | | 440x88(2U)×400 | | 440x88(2U)×612 | |
| Weight (KG) | | 10.3 | 17 | 24 | 53 |

## Specifications

| Model | | R11-1KVA | R11-2KVA | R11-3KVA | R11-6KVA | R11-10KVA | R11-15KVA | R11-20KVA |
|---|---|---|---|---|---|---|---|---|
| Capacity | KVA/KW | 1KVA<br>900W | 2KVA<br>1.8KW | 3KVA<br>2.7KW | 6KVA<br>5.4KW | 10KVA<br>9KW | 15KVA<br>13.5KW | 20KVA<br>18KW |
| AC Input | Input System | Single phase (L/N+PE) | | | | | | |
| | Nominal Voltage | HV: 208/220/230/240Vac / LV:100/110/120/127Vac | | | | | | |
| | Frequency | 50/60Hz | | | | | | |
| | Voltage Range | HV: 110~285VAC±5VAC / LV: 55-145Vac±3VAC | | | | | | |
| | Frequency Range | (40~70)±0.5Hz | | | | | | |
| | Power Factor | >0.99 | | | | | | |
| | Bypass Voltage Range | HV: 180~265VAC×(1±3%) / LV: 80~140VAC×(1±3%) | | | | | | |
| Battery Input | Nominal Voltage | 24/36V | 48/72V | 72/96V | 144/192V | 192/240V | Customized | |
| | Battery Capacity | External | | | | | | |
| | Battery Quantity | Customized | | | | | | |
| | Backup Time | Half loaded≥8minutes,Full loaded ≥3minutes(standard) | | | | | | |
| | Battery Charger Time | Charger to 90% battery capacity in 5 hours(standard) Dependent on the capacity of external batteries (long backup time) | | | | | | |
| AC Output | Output Wiring System | Single phase (L/N+PE) | | | | | | |
| | Inverter Mode Output Voltage | HV:200V/208/220/230/240Vac±2%, LV:100/110/120/127Vac±2% | | | | | | |
| | Waveform | Sine Wave | | | | | | |
| | Harmonic Distortion | THD<2% (linear load), THD<7% (nonlinear load) | | | | | | |
| | Output Frequency | 50/60±4Hz (Sync mode), 50/60Hz±1% (Fix Freq. mode) | | | | | | |
| | Overload Capacity | 105 ～ 125%≥ 60s,126 ～ 150%≥30s The recover point is 70% | | | | | | |
| | Transfer Time | Battery <—> Line Mode :0ms | | | | | | |
| Efficiency | Line Mode | 86% | 86% | 87% | 88% | 89% | | |
| | Battery Mode | 85% | 86% | 87% | 88% | 89% | | |
| Communications | | RS232 RS485(optional), Dry contact(optional), Network Card(Option) | | | | | | |
| Alarm Function | | AC/DC input under abnormal, overload condition and Inverter problems | | | | | | |
| Protection Function | | AC input or output above or below the range of voltage, overload, over temperature and short circuit protection | | | | | | |
| Noise | | <50dB | | | | <55dB | | |
| Dimensions (W×H×L) MM | | 440x88(2U)×400 | | | 440x88(2U)x500 | | 440x176(4U)x532 | |
| Weight (KG) | | 6.7 | 7.3 | 8.7 | 10.8 | 14.4 | 24.1 | 24.3 |

# PRODUCT CATALOG

**UPS System**
**Voltage Stabilizer**
**Transformer**

**VFD Inverter**
**Soft Starter**
**Solar Inverter**

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