



KR33 Series

UPS 50-200kVA

- » IGBT Rectifier
- » High Efficiency up to 96%
- » Output PF 1.0
- » Fault Tracing Management



Finance



Telecommunication



Data Center



Government



Energy



Medical



Transportation



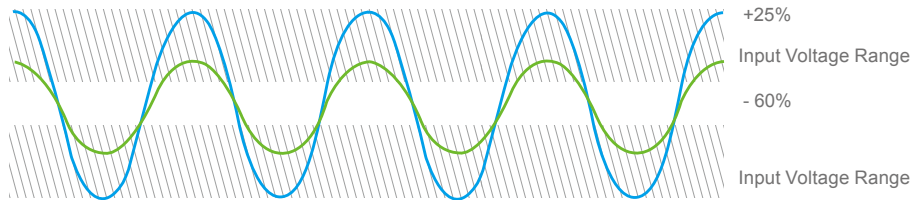
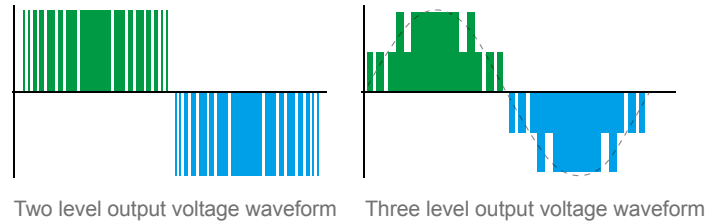
Electricity

KR33 Series UPS



High Reliability

- Super wide input voltage range -60%~+25%
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi (<3%) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3-level IGBT inverter ensures excellent performance
- Intelligent fan control according the load capacity reduces the noise and prolongs fan service life

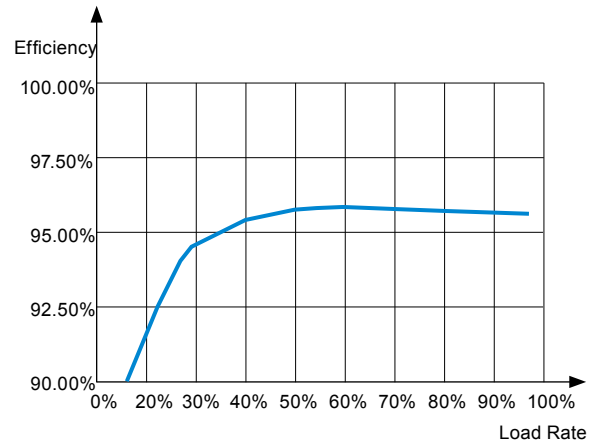


Wide input voltage range



Green Power

- High efficiency in online mode ($\geq 96\%$) reduces heat dissipation and limits power consumption costs
- Efficiency > 99% in ECO mode gives significant cost reduction



For example:

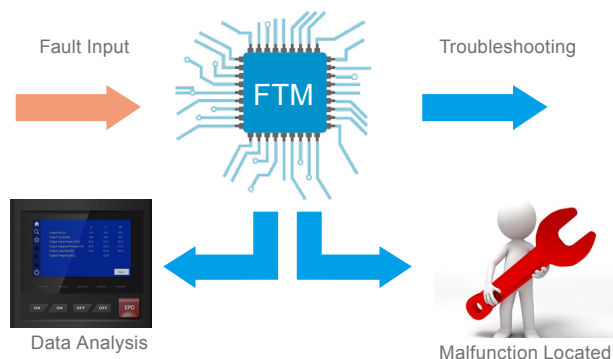
- Kehua 200kVA UPS efficiency ranks 1% higher than industry average(94%)
- Saving UPS electricity 10512 kWh per year
- The equivalent of nearly 1681.92 USD saved per year (Calculation bases on 0.16USD/kWh).



Save \$ 1681.92 per Year!

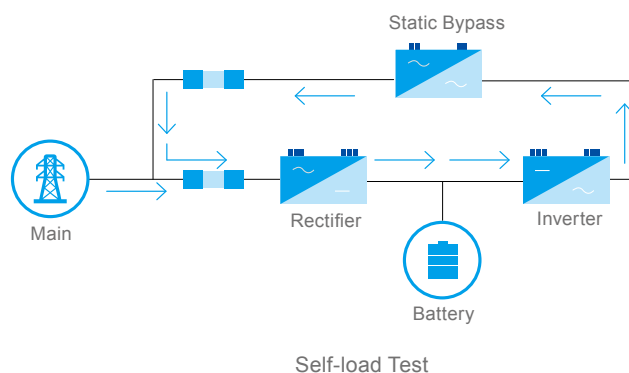
Intelligent Management

- Fault Tracing Management (FTM) for convenient failure analysis (waveform record)
- Intelligent battery management system prolongs battery service life
- HMI enables more setting and status showing
- Auto dedusting function
- Key components pre-alarm function



Flexible Design

- Common battery bank sharing in parallel system
- Flexible battery configuration improves service ability
- High power density design with compact size, 120kW only cover 0.3825 m²
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- Self-load test function without load enables onsite commission
- Easy onsite parallel modification



More Options

- Customized power distribution cabinet
- Flexible network management: SNMP
- Expanded dry contact
- Intelligent battery monitoring system
- Bypass voltage regulator
- Dual system control card
- Auto switch: STS, ATS
- N+X in parallel
- Input and output isolation transformer
- SPD: C grade
- Output synchronization common bus
- Battery charge temperature compensation



KR33 Series UPS

Technical Specifications

| MODEL | KR3350 | KR3380 | KR33100 | KR33120 | KR33160 | KR33200 |
|--|---|--------------|---------|---------|--------------|---------|
| INPUT | | | | | | |
| Voltage (Vac) | 380/400/415 (138~485 L-L) | | | | | |
| Frequency (Hz) | 40~70 | | | | | |
| Bypass Voltage (Vac) | 380/400/415: -20%~+15% | | | | | |
| Power Factor | ≥0.99 | | | | | |
| Phase | 3φ4W+PE | | | | | |
| OUTPUT | | | | | | |
| Capacity (kVA) | 50 | 80 | 100 | 120 | 160 | 200 |
| Power Factor | 1 | | | | | |
| Voltage (Vac) | L-N: 220/230/240±1% L-L: 380/400/415±1% | | | | | |
| Frequency (Hz) | 50/60±0.1% (Battery mode) | | | | | |
| Phase | 3φ4W+PE | | | | | |
| Unbalance 3-phase voltage stabilization with full load | ≤2% | | | | | |
| Waveform | Pure sine wave, THD<1% at linear | | | | | |
| Transfer Time (ms) | 0 | | | | | |
| Efficiency | up to 96% | | | | | |
| Overload | 105%~ 110% load for 60 min, 111%~ 130% load for 10 min, 131%~ 150% load for 1 min, above 150% load for 200 ms | | | | | |
| BATTERY | | | | | | |
| Battery Voltage (Vdc) | ±192 (±180/±204/±216/±228/±240 Settable for long backup type) | | | | | |
| BATT Type | External | | | | | |
| Charging Current (A) Max. | 10 | 20 | 20 | 30 | 30 | 40 |
| OTHER | | | | | | |
| Communication Interface | RS485, MODBUS, dry contact (RS232, SNMP, expend dry contact card are optional in slot) | | | | | |
| Display | Touch screen+LED | | | | | |
| Alarm | AC input abnormal, low battery, overload, failure | | | | | |
| Protection | Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage | | | | | |
| Noise (dB) | <70 | | | | | |
| Working Temperature (°C) | -5 ~ 40 | | | | | |
| Relative Humidity | 0 ~ 95%, no condensation | | | | | |
| Dimension (W×D×H)(mm) | 450×840×967 | 450×840×1400 | | | 600×900×1600 | |
| Weight (kg) | 120 | 210 | 210 | 242 | 270 | 300 |

* Specification is subject to change without prior notice.

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Version No.: 20200413

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