# ResiPOWER RK10S

## Three-phase online UPS

### PRODUCT FEATURES

- The smallest footprint in its class and its vertical internal layout ensure a low TCO
- PF 1 guarantees maximum power availability: Kva=KW for RK10S, RK15S, RK20S, RK30S and RK40S
- THDi <3% for low impact on the mains supply
- High protection on neutral line thanks to 3 poles battery breakers
- Built-in backfeed contactor
- Converts frequencies without derating, maximising power availability for loads with frequencies other than the mains input frequency
- Cold start function included
- Designed to minimise impact on generators and avoid the need for over-dimensioning them
- Up to 95% efficiency in online mode
- Internal manual bypass and 4-pole switches
- Vertical internal layout ensures easy maintenance
- Wrong phase sequence rotation protection
- High overload capacity for up to 1 minute at 150% load
- Internal battery up to 40 x 9 Ah (for 10, 15 and 20 kVA)
- Built-in high-performance charger (10 kVA with standard charger for up to 10 A)
- Variable battery configuration: 26 to 40 individual 12 V blocks settable from the touch display
- Compatible with lithium-ion batteries or other technologies
- Up to 6 units can be connected in parallel for power or redundancy, settable from the touch display
- Separate or common batteries that can be configured for parallel systems
- Colour LCD touchscreen display for a user-friendly interface (14 selectable languages)
- Wide range of communication options included: two ports as standard, 1 x RS232 and 1 x USB, programmable dry contacts, plus two additional slots for optional cards

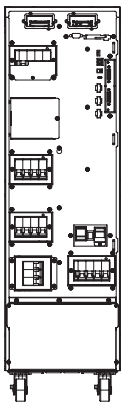
### KEY OPTIONS

- SNMP, RS-485 ModBus cards
- Battery temperature sensor
- Parallel kit
- Remote touch panel for monitoring up to 64 units with 3 programmable output contacts

UPS settings and log file info up to 800 events can be easily downloaded to SD.


Settings and log file info | LCD panel | Removable SD card

**Back panel**



## TECHNOLOGY AND VERSATILITY WITH THE SMALLEST FOOTPRINT IN ITS CLASS

| Model | | RK10S |
|---|---|---|
| Power | kVA | 10 |
| | kW | 10 |
| Input | Rated voltage | 400 V three-phase+neutral |
| | Voltage tolerance | ±20% @100% load, -40/+20% @50% load |
| | Rated frequency | 40-70 Hz |
| | Power factor | ≥ 0.99 |
| | Current distortion (THDi) | ≤ 3% at full load |
| Output | Rated voltage | 380/400/415 V three-phase+neutral |
| | Voltage stability | ±1% (static load) |
| | Frequency | 50/60 Hz |
| | Frequency stability | ±0.01% (free running) |
| | Power factor | 1 |
| | Crest factor | 3:1 |
| | Voltage distortion | ≤2% with linear load, ≤5% with distorting load |
| | Overload | 110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute |
| Battery | Number per string (batt 12V) | 26-40 config. |
| | Max. charging current* | 10 A |
| | Common battery for parallel configuration | Supported |
| | Internal battery | Housing available for 40 x 12V 7/9 Ah batteries |
| Efficiency | VFI mode | Up to 95% |
| | ECO mode | Up to 98% |
| | In battery | Up to 94% |
| Bypass | Rated voltage | 380/400/415 V three-phase+neutral |
| | Voltage tolerance | Basic window ±10% (programmable ±5% - ±15%)<br>Critical window ±25% (programmable ±16% - ±30%) |
| | Frequency | 50/60 Hz |
| | Frequency tolerance | ±1 Hz / ±3 Hz (selectable) |
| General | Parallel connection | Up to 6 units |
| | Dimensions (W x D x H) mm | 260 x 850 x 890 (including wheels) |
| | Weight (kg) | 74 |
| | Protection class | IP 20 |
| Connectivity | User interface | 4.3" colour LCD touch screen display with removable SD card |
| | Built-in communication ports | USB, RS232, EPO, 1 in/3 out dry contact relays (programmable) and additional slots for optional cards |
| | Optional accessories | Cards: SNMP, RS-485 ModBus, 6 in/6 out dry contact relays, touch panel for remote monitoring |
| Environmental parameters | Operating temperature** | 0-40°C |
| | Relative humidity | 0-95% (non-condensing) |
| | Altitude (a.s.l.) | <1000 m with no power derating, >1000 m with 1% derating for every 100 m |
| | Audible noise at 1 m | <52 dBA |
| Regulations | Standards | IEC EN 62040-1, IEC EN 62040-2, IEC EN62040-3 |
| | Marking | CE, UKCA |

*Subject to conditions. **To be verified according to the battery parameters. Specifications subject to change without notice - Rev. 2023/04.