

# ResiPOWER RK15S

## 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.

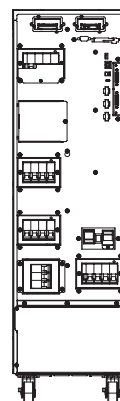


Settings and log file info

LCD panel

Removable SD card

### Back panel



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

| Model                    |   | RK15S   |
|--------------------------|---|---|
| Power                    | kVA                                       | 15  |
|                          | kW  | 15  |
| 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   |
|                          | Rated voltage                             | 380/400/415 V three-phase+neutral   |
| Output                   | 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)              | 32-40 configurable  |
|                          | Max. charging current*                    | 15 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)  |
|                          | Parallel connection                       | Up to 6 units   |
| General                  | Dimensions (W x D x H) mm                 | 260 x 850 x 890 (including wheels)  |
|                          | Weight (kg)                               | 76  |
|                          | 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  |

RK15S is not part of the standard stocked range; please contact the sales office for further information and availability. \*Subject to conditions. \*\*To be verified according to the battery parameters. Specifications subject to change without notice - Rev. 2023/04.

