

ResiPOWER RK20S

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



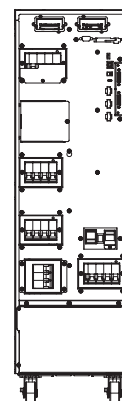
KEY OPTIONS

- 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.



Back panel



TECHNOLOGY AND VERSATILITY WITH THE SMALLEST FOOTPRINT IN ITS CLASS

Model		RK20S
Power	kVA	20
	kW	20
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)	32-40 configurable
	Max. charging current*	21 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%) 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

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

