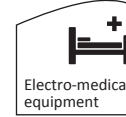


# KR 10 kVA - 40 kVA

## THREE-PHASE ONLINE UPS



### Features

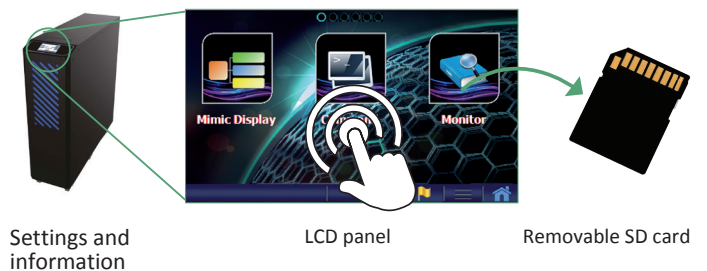
- The smallest footprint in its class (0.22 m<sup>2</sup> for 20 kVA with 40x9 Ah internal batteries) and its vertical internal layout ensure a low TCO.
- Maximum flexibility: 10, 15, and 20 kVA models can be easily set up on-site with three-phase (3/3) or single-phase (3/1) output, depending on installation requirements.
- THDi <3% for low impact on the mains supply.
- Built-in backfeed contactor.
- Cold start function included.
- Designed to minimise impact on generators and avoid the need for overdimensioning 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 12V 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 touch screen display for user-friendly interface (14 selectable languages).
- Wide range of communication options included: two ports as standard, 1xRS232 and 1xUSB, programmable dry contacts plus two additional slots for optional cards.
- Log file for up to 800 events, and UPS information and settings can be easily downloaded to an SD card.

### Key options

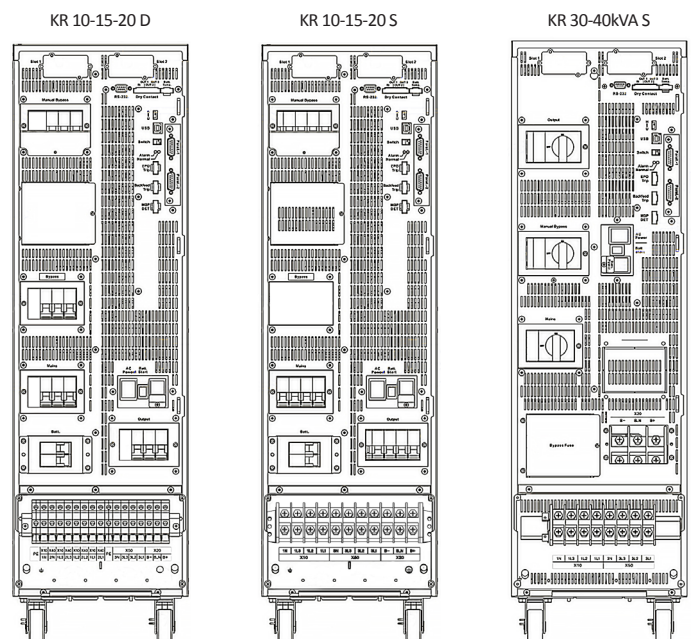
- SNMP, RS-485 ModBus cards.
- Battery temperature sensor.
- Parallel kit.
- Remote touch panel for monitoring up to 64 units with 3 programmable output contacts.

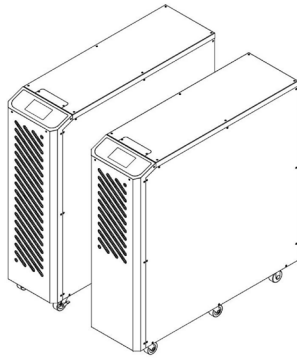


### Settings can be easily downloaded to SD



### BACK PANEL





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

Its small footprint and versatility makes Kronos the best choice for various applications from IT to industrial and medical equipment.

MODEL *		KR10D 3/1	KR15D 3/1	KR20D 3/1	KR10S	KR15S	KR20S	KR30S	KR40S	
POWER	kVA	10	15	20	10	15	20	30	40	
	kW	9	13.5	18	9	13.5	18	27	36	
INPUT	Rated voltage	400V three-phase+neutral								
	Voltage tolerance	±20% @100% load, -40/+20% @50% load								
	Rated frequency	40 - 70 Hz								
	Power factor	≥ 0.99								
	Current distortion (THDi)	3/1	≤ 5% at full load			≤ 3% at full load				
OUTPUT	Rated voltage	3/1	220/230/240 V single-phase+neutral			380/400/415 V three-phase+neutral				
		3/3	380/400/415 V three-phase+neutral							
	Voltage stability	±1% (static load)								
	Frequency	50/60 Hz								
	Frequency stability	±0.01% (free running)								
	Power factor	0.9								
	Crest factor	3:1								
	Voltage distortion	≤2% with linear load, ≤5% with distorting load								
BATTERY	Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute								
	Number per string (batt 12V)	26-40 config.	32-40 configurable			26-40 config.	32-40 configurable			
	Max. charging current**	10 A	15 A	21 A	10 A	15 A	21 A	30 A	39 A	
	Common battery for parallel configuration	Supported								
EFFICIENCY	Internal battery	Housing available for 40 x 12V 7/9 Ah batteries						N.A.		
	VFI mode	Up to 95%								
	ECO mode	Up to 98%								
BYPASS	In battery	Up to 94%								
	Rated voltage	3/1	220/230/240 V single-phase+neutral			380/400/415 V three-phase+neutral				
		3/3	380/400/415 V three-phase+neutral							
	Voltage tolerance	Basic window ±10% (programmable ±5% - ±15%) Critical window ±25% (programmable ±16% - ±30%)								
GENERAL	Frequency	50/60 Hz								
	Frequency tolerance	±1 Hz / ±3 Hz (selectable)								
	Parallel connection	Up to 6 units								
	Dimensions (WxDxH) mm	260x850x890 (including wheels)								
	Weight (kg)	74	76	76	74	76	76	85	88	
CONNECTIVITY	Protection class	IP 20								
	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								
ENVIRONMENTAL PARAMETERS	Optional accessories	Cards: SNMP, RS-485 ModBus, 6 in/6 out dry contact relays, touch panel for remote monitoring								
	Operating temperature***	0-40°C								
	Relative humidity	0-95% (non-condensing)								
REGULATIONS	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						<55 dBA		
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN62040-3								
	Marking	CE, UKCA								

\* Models KR10D: dual inputs (3/3 or 3/1); Models KR15D: single input (3/3) \*\* Subject to conditions \*\*\* To be verified according to the battery parameters