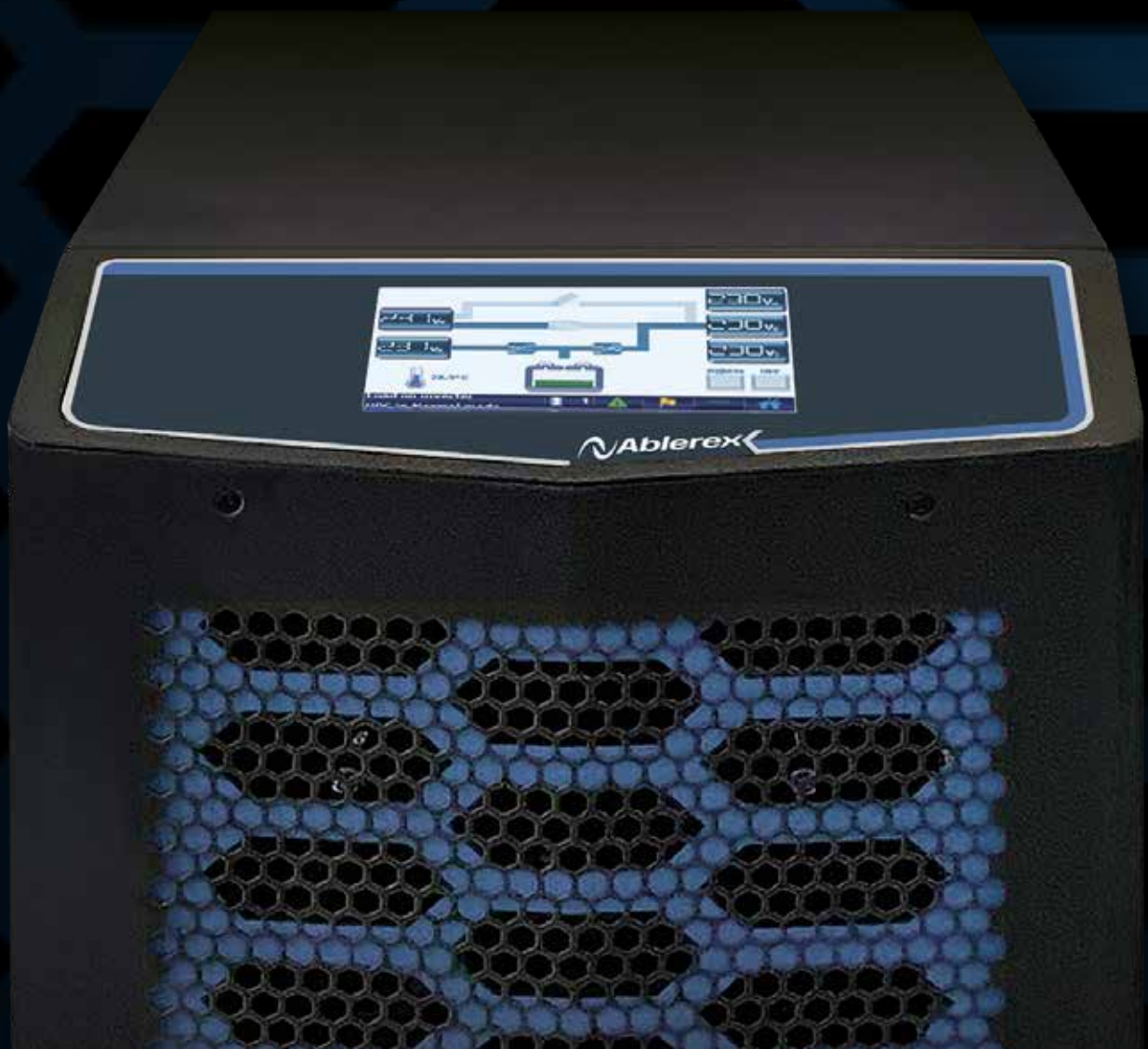**Ablerex**

every moment counts

Kronos Plus
10-40 kVA

Kronos Plus XL
10-40 kVA

Ablerex

KRONOS PLUS - KRONOS PLUS XL

Lithium ready technology, maximum efficiency and versatility with the smallest footprint in its class.

KRONOS PLUS
10-40 kVA
UPS with PF1 (kVA=kW) provides the highest efficiency with the smallest footprint

The smallest footprint in its class (0.22 m² for 20 kVA with 40x9 Ah internal batteries) and its vertical internal layout ensure a low TCO.

Two interchangeable versions, 3:3 or 3:1-3, can easily be selected on-site (for 10, 15 and 20 kVA) for maximum installation flexibility.

Internal battery up to 40 x 9 Ah (for 10, 15 and 20 kVA).

KRONOS PLUS XL
10-40 kVA
Compact and versatile UPS with easily configurable single- or three-phase output

Flexible and compact design suitable for various configurations.

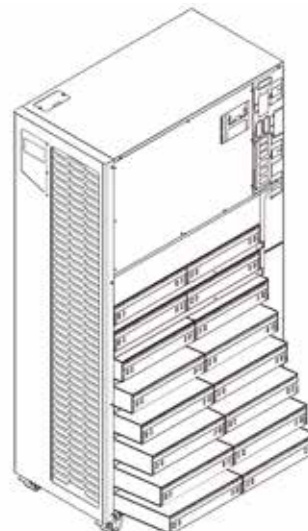Long autonomy time thanks to the high number of integrated batteries.

Thanks to the vertical internal layout of the components, maintenance, board replacement and scheduled battery change activities are simplified.

Kronos Plus XL range allows for the installation of an internal isolation transformer for input and output.

Applications

- Server rooms
- Micro and mini data centres
- Telecommunications equipment
- Electromedical equipment
- Industrial applications
- Ideal for generators

Higt internal battery density
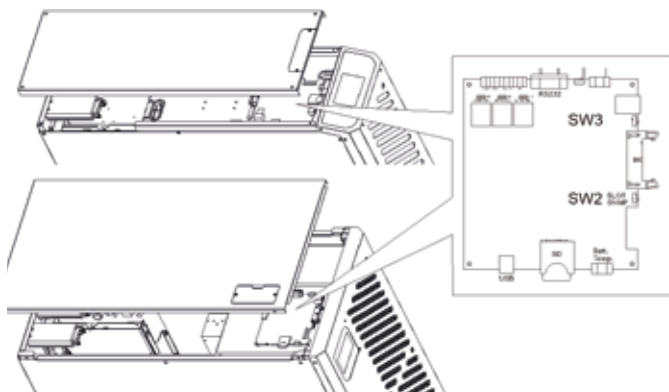
KRONOS PLUS - KRONOS PLUS XL

- PF 1 ensures maximum power availability: kVA=KW for KRONOS Plus 10-15-20-30-40 TTS.
- The patented GLM® function enables efficient management and reuse of energy produced by regenerative loads (e.g., elevators, electric motors, CNC machines, etc.).
- Compatible with lithium-ion batteries or other technologies.
- THDi <3% for low impact on the mains supply.
- The internal backfeed contactor integration eliminates the need for an external contactor.
- All models make it possible to maximize the energy available for loads with frequencies other than those of the power grid without loss of performance.
- Cold start function included.
- Designed to minimise impact on generators and avoid the need for oversizing them.
- Up to 95% efficiency in online mode.
- Internal manual bypass and 4-pole switches.
- Vertical internal layout ensures easy maintenance.

- Fail-safe: the UPS indicates when the phase rotation is connected incorrectly without interrupting the supply from the inverter to the loads, while keeping the batteries charged.
- High overload capacity for up to 1 minute at 150% load.
- 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.
- 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.
- 4.3" 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, RS485, ModBus card.
- Parallel kit.
- Removable internal battery compartments for easy battery maintenance.
- External temperature sensor for a battery cabinet.

- Movable touch panel 7" with 3 programmable dry contacts for remotely monitoring up to 64 units.
- Internal backfeed contactor.

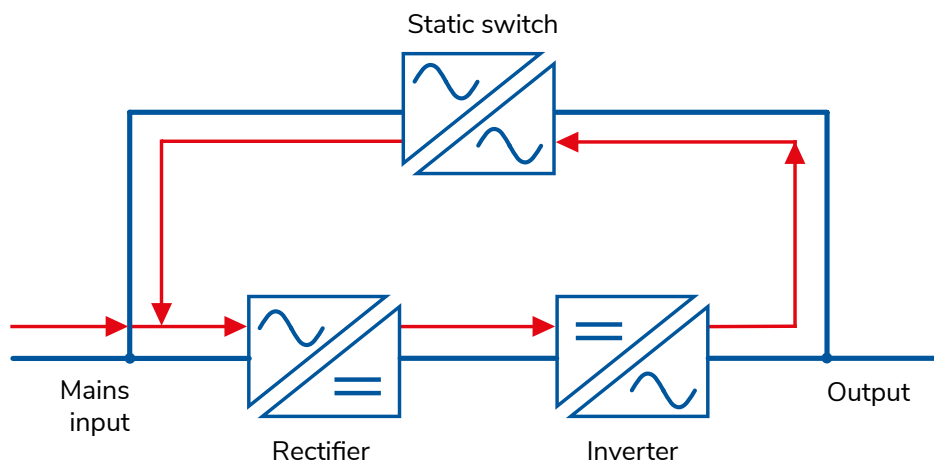## UPS event logs and settings can be easily exported to an SD-Card

Instant disconnected battery warning
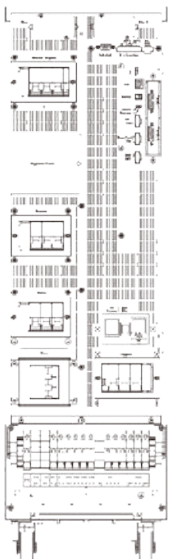
Instant battery disconnection alert

KRONOS PLUS - KRONOS PLUS XL

Easy and efficient commissioning and maintenance thanks to the Smart ageing self-test function

- The test function is able to monitor performance over time to identify potential deterioration in the various UPS components.

- More than 90% energy saving thanks to the possibility of performing verification tests without a real load.

- Possible to set up automatic on-site testing at any time: before commissioning or during UPS maintenance.

- Components can be tested by simulating different load conditions without a real load.
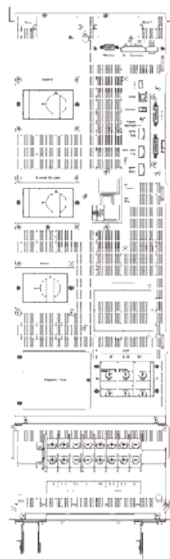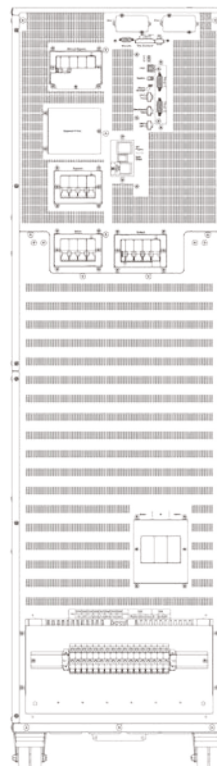
Static switch

Mains input

Rectifier

Inverter

Output

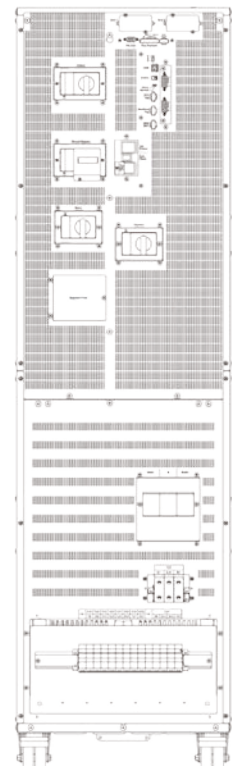KRONOS PLUS XL
10/15/20 kVA

KRONOS PLUS XL
30/40 kVA

KRONOS
10/15/20 KVA 3/1

KRONOS PLUS
10/15/20 kVA

KRONOS PLUS
30/40 kVA

KRONOS PLUS - KRONOS PLUS XL

KRONOS PLUS - KRONOS PLUS XL TECHNICAL DATA SHEET

MODEL*		KR10D 3/1	KR15D 3/1	KR20D 3/1	KR10S Plus	KR15S Plus	KR20S Plus	KR30S Plus	KR40S Plus
POWER	KVA	10	15	20	10	15	20	30	40
	KW	9	13,5	18	10	15	20	30	40
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				
	Current distortion (THDi) 3/3	≤ 3% at full load							
OUTPUT	Rated voltage 3/1	220/230/240 V single-phase+neutral			380/400/415 V three-phase+neutral				
	Rated voltage 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			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							
BATTERIA	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							
	Max internal battery quantity — Standard	40 batteries 12V/7-9 Ah						N.A.	
	Max internal battery quantity — XL				160 batteries 12V/7-9 Ah			120 batteries 12V/7-9 Ah	
EFFICIENCY	VFI mode	Up to 95%							
	ECO mode	Up to 98%							
	In battery	Up to 94%							
BYPASS	Rated voltage 3/1	220/230/240 V single-phase+neutral			380/400/415 V three-phase+neutral				
	Rated voltage 3/3	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)							
GENERAL	Parallel connection	Up to 6 units							
	Dimensions (WxDxH) mm — Standard	260x850x890							
	Dimensions (WxDxH) mm — XL				440x850x1570				
	Weight (kg) — Standard	74	76	76	74	76	76	85	88
	Weight (kg) — XL				142	144	144	145	148
	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						<55 dBA	
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN62040-3							
	Marking	CE, UKCA							

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

Versatile high-power technology for critical applications

Kronos Plus
10-40 kVA

Kronos Plus XL
10-40 kVA

Taurus
10-80 kVA

Titan
100-500 kVA

Titan GT
100-800 kVA

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every moment counts

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