

# KRONOS

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

10 kVA – 40 kVA

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

3:1  
In/Out

3:3  
In/Out

3 Level  
Technology

4.3"  
Touch Screen



### IDEAL FOR:



Small data centres



Telecommunications



Electro-medical equipment



Industrial applications

### FEATURES

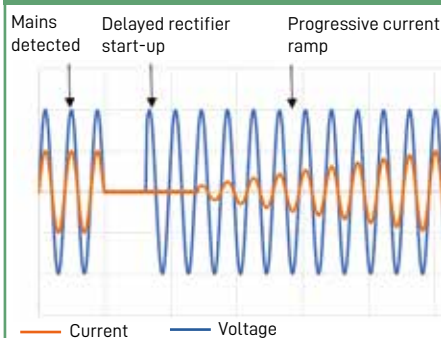
- The smallest footprint in its class (0.22 m<sup>2</sup> for 20 kVA with 40x9 Ah internal batteries) and its vertical internal layout ensure a low TCO.
- Two interchangeable versions, 3:3 or 3:1-3, can easily be selected on-site (for 10, 15 and 20 kVA) for maximum installation flexibility.
- THDi <3% 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.
- Fail-safe: the UPS indicates when the phase sequence 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.
- 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.



### IDEAL FOR GENERATORS



### SETTINGS CAN BE EASILY DOWNLOADED TO SD



# KRONOS TECHNICAL DATA SHEET

MODEL		KR10 KVA 3/3_3/1	KR15 KVA 3/3_3/1	KR20 KVA 3/3_3/1	KR10 KVA 3/3	KR15 KVA 3/3	KR20 KVA 3/3	KR30 KVA 3/3	KR40 KVA 3/3
Power	kVA	10	15	20	10	15	20	30	40
	kW	9	13.5	18	9	13.5	18	27	36
INPUT	Rated voltage	380/400/415 V three-phase+neutral							
	Voltage tolerance	±20%							
	Rated frequency	40 – 70 Hz							
	Power factor	≥0.99							
	Current distortion (THDi)	3/1	≤ 5% at full load			≤ 3% at full load			
	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				
		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							
	Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute							
BATTERY	Number per string (12V)	26–40 configurable		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							
	Internal battery	Housing available for 40 x 12V 7/9 Ah batteries							N.A.
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				
		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	260x850x890 (including wheels)							
	Weight (kg)	74	76	76	74	76	76	85	88
	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 relay contacts (programmable) and additional slots for optional cards							
	Optional accessories	Cards: SNMP, RS-485 ModBus, 6 in/6 out dry relay contacts, 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							

Catalogue data may be subject to change without notice due to our commitment to continuous innovation - rev 21\_07

\* Subject to conditions

\*\* To be verified according to the battery parameters