HT X3 100kVA – 200kVA



Alphapower

The HT X3 is a **three-phase in/three-phase out** UPS designed with **on-line double conversion technology** and has filtered and **stabilised sinusoidal output voltage**. It is fitted with input and output filters making it **immune to interference** from power supply lines.

The digital microprocessor controller enables information exchange and ensures that parallel connections are monitored and that the current is balanced. The HT X3's innovative design means that it can be installed in parallel to increase available power, even after the initial unit's installation. The Dual Bus System powers priority loads from 2 independent sources increasing redundancy and availability level of multi-module configuration. Two systems can be merged together for expansion or maintenance at any time.

The ECO mode increases efficiency by up to 98% thus reducing energy dissipation and running costs; this is achieved by using mains as priority for the load and switching load/s to the inverter only when mains characteristics exceed the set parameters.

The X3 has high overload capability, galvanic isolation and low harmonic distortion; all models of the X3 series can also be used as frequency converters ($50Hz \leftrightarrow 60Hz$). UPSMon software displays, in a bar graph, the input/output voltage, load applied, remaining back-up time, etc.

The front mimic panel of the UPS allows access to menu items and information including: status and alarms, control commands, input, output,



settings and battery measurements – power, voltage, current frequency and temperature.

The diagnostics system contains up to 128 alarms and messages.

Back feed protection prevents voltage from feeding back into the distribution board in order to keep maintenance personnel safe.

Model	Capacity		
HT 100	100kVA		
HT 120	120kVA		
HT 160	160kVA		
HT 200	200kVA		



Product Specifications

Model		HT 100	HT 120	HT 160	HT 200		
Continuous Output Power		100kVA	120kVA	160kVA	200kVA		
Input	Rated Voltage			400V _{AC} Three	e-phase + N		
	Voltage Range		± 20%				
		Frequency Range	$50/60Hz \pm 5Hz$				
		Soft Start	0-100% in 10sec				
		Technology	On-line, double conversion AND line-interactive				
		Power Factor	> 0.9 in HT Clean version				
		Harmonic Distortion		< 5% in HT (Clean version		
	Rectifier	Output Ripple	< 1%				
		Maintenance Voltage	Varies according to temperature				
		Efficiency	> 93%				
		Rated Power	80kW	96kW	128kW	160kW	
		Phases	Three + N				
		Rated Voltage	400V 3-phase - configurable				
ų		Rated Current	145A	174A	230A	290A	
Output	in in	AVR	348/424 V - configurable				
ō		Crest Factor	3:1				
	Inverter	Waveform	Sinusoidal				
	Inv	Static Stability	± 1%				
		Dynamic Stability	± 5% in 5ms				
		Frequency	50/60Hz - configurable				
		Overload	110% for 5h / 125% for 10min / 150% for 1min				
		Frequency Stability	\pm 0.05% (mains failure) / \pm 2% (selectable \pm 1 – 5% with mains supply)			: 1 – 5% with	
_	Back Feed Protection		YES				
Bypass & Protection	Rated Voltage		400V _{AC} Three-phase				
otec				Set: ± 15% Selectable: Between ± 10% & ± 20%			
Ϋ́		Rated Frequency	50/60Hz (Auto sensing)				
SS {		Circuit Breaker	• • • • • • • • • • • • • • • • • • • •				
}\bar{\}			YES				
		Shutdown	Auto shutdown programmable for prolonged black-out				



Battery	Туре	Maintenance-free lead acid, VRLA AGM/GEL, NiCd					
	Max. Recharge Current	0.2 x C 10					
	Internal Batteries	NO					
	Protection	Periodic self-test, Protection against deep discharge, Recharge					
	Fiotection	temperature compensation					
	Net Weight Kg (lbs.)	756 (1666.7) 901 (1986.4)	1300 (2866)	1360 (2998.3)		
	Dimensions (mm)	1070 x 745 x 1400		1420 x 745 x 1800			
	WxDxH	42.1" x 29.3" x 55.1"		55.9" x 29.3" x 70.9"			
	Colour	Light grey RAL 7035					
Ca	Display	Status LEDs / Status LEDs & LCD					
Physical	Evnandable	YES – up to 8 units	synchron	ised using UGS	(UPS Group		
<u> </u>	Expandable	Synchroniser)					
	RS232	YES					
	Remote Controls	EPO and bypass contacts					
	Dry Contacts	YES					
	LED	YES					
Alarm	LCD	YES					
₹	Audible	YES					
ent	Operating Temperature	0 – 45°C					
ronm	Relative Humidity	0 – 95% non-condensing					
Environment	Noise	< 60dBA (1 metre from surface))		
Compliance	Protection Rating	IP20					
Mo	Safety	EN 62040-1 EMC EN 62040-2 Directives 73/23 – 93/68 – 89/339 EC EN 62040-3					
		Directives 73/23	3 – 93/68	- 89/339 EC EN	1 62040-3		



	Empty Battery Cabinets	Χ	Х	Х	Х
OPTIONS	Parallel Kit	Х	X	X	X
	LCD-based Remote Control Panel	X	X	Χ	Χ
	LED-based Remote Control Panel	Χ	X	Χ	Χ
	MultiCom 351	Χ	X	Χ	Χ
	MultiCom 301	X	Χ	Χ	Χ
	Netman 101Plus	X	X	X	X
	Multi I/O	X	X	X	X
	IRMS Multi-switch	X	X	X	X
	AS/400 Interface	X	X	Χ	Χ
	UPS Remote Contacts Expander	Χ	X	Χ	Х
	UPS Group Synchroniser	Χ	X	Х	Х
	Power System Joiner	Χ	X	Χ	Χ
	MultiCom 401	Χ	X	Χ	Χ