HT X3 10kVA - 80kVA



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 10	10kVA
HT 15	15kVA
HT 20	20kVA
HT 30	30kVA
HT 40	40kVA
HT 60	60kVA
HT 80	80kVA



Product Specifications

Model		HT 10	HT 15	HT 20	HT 30	HT 40	HT 60	HT 80			
Continuous Output Power		10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA			
Input		Rated Voltage	400V _{AC} Three-phase + N								
		Voltage Range	± 20%								
		Frequency Range	50/60Hz ± 5Hz								
		Soft Start	0-100% on 10"								
		Technology	On-line, double conversion AND line-interactive								
		Power Factor	> 0.9 in HT Clean version								
		Harmonic Distortion	< 5% in HT Clean version								
	ē	Output Ripple	< 1%								
	Rectifier	Maintenance Voltage	Varies according to temperature								
	Re	Efficiency			> 92%			> 9	93%		
		Rated Power	8kW	12kW	16kW	24kW	32kW	48kW	64kW		
		Phases	Three + N								
		Rated Voltage	400V								
		Rated Current	14A	22A	29A	43A	58A	87A	115A		
Output		AVR	348/424 V - configurable								
		Crest Factor	3:1								
ō	rter	Waveform	Sinusoidal								
	Inverter	Static Stability	± 1%								
		Dynamic Stability	± 5% in 5ms								
		Frequency	50/60Hz Configurable								
		Overload	110% of rated for 5h / 125% of rated for 10min / 150% of rated								
		Overload	for 1min								
		Frequency Stability	\pm 0.05% on mains failure / \pm 2% - selectable between \pm 1% and \pm 5% with mains supply								
		Back Feed Protection	YES								
ction		Rated Voltage	400V _{AC} Three-phase								
otec		Voltage Range	Set: ±15% Selectable: Between ± 10% & ± 20%								
Bypass & Protection		Rated Frequency	50/60Hz (Auto sensing)								
Jass		Circuit Breaker	YES								
By		Shutdown	Auto shutdown programmable for prolonged black-out								



	Type Maintenance-free lead acid, VRLA AGM/GEL, NiCd									
SIV.	Maximum Recharge	Maintenance-free lead acid, VRLA AGM/GEL, NICO								
	Current	0.2 x C 10								
		YES YES YES NO NO NO								
Battery	Internal Batteries	YES	YES				NO	NO		
					iodic self-					
	Protection			rge						
		Recharge temperature compensation								
	Net Weight Kg (lbs.)	223	260	260	336	361	497	556		
		(492)	(573)	(573)	(741)	(796)	(1096)	(1226)		
	Dimensions (mm)	800 x 745 x 1400 555 x 725 x 1220								
<u>ea</u>	WxDxH	31.5" x 29.3" x 21.8" x 28.5" x 48.0"								
Physical		55.1"								
풉	Colour	Light grey RAL 7035								
	Display	Status LEDs / Status LEDs & LCD								
	Expandable	YES – up to 8 units synchronised using UGS (UPS Gro						oup		
		Synchroniser)								
9	RS232	YES								
Interface	Remote Controls	EPO and bypass contacts								
Int	Dry Contacts	YES								
_	LED	YES								
Alarm	LCD	YES								
⋖	Audible	YES								
ent	Operating Temperature	0 – 45°C								
Environme	Relative humidity	0 – 95% non-condensing								
Envi	Noise	< 60dBA (1 metre from surface)								
iance	Protection Rating	IP20								
Compliance	Safety	EN 62040-1 EMC EN 62040-2								
	Salety	Directives 73/23 - 93/68 - 89/339 EC EN 62040-3								



	Empty Battery Cabinets	X	Χ	Χ	Χ	Χ	Χ	Χ
	Parallel Kit	Х	Χ	Χ	Χ	Χ	Χ	X
	LCD-based Remote	Х	Χ	X	Χ	X	X	X
	Control Panel	^	^	^	^	^	^	X
	LED-based Remote	Х	Х	X	X	X	Х	X
	Control Panel	X	Χ.	Χ	Χ	Χ	X	Χ
	MultiCom 351	X	Χ	X	Χ	Χ	Χ	Χ
	MultiCom 301	Х	Х	Х	X	X	Х	Χ
OPTIONS	Netman 101Plus	Χ	Χ	Χ	Χ	Χ	Χ	Χ
PTI	Multi I/O	Х	Χ	Χ	X	X	Х	X
Ō	IRMS Multi-switch	X	Χ	Χ	Χ	Χ	X	
	AS/400 Interface	X	Х	X	X	X	Х	X
	UPS Remote Contacts	Х	Χ	X	X	X	Х	X
	Expander	^	^	^	^	^	^	^
	UPS Group	Х	Х	X	X	X	Х	X
	Synchroniser	٨	٨	^	^	^	^	^
	Power System Joiner	X	Χ	Χ	Χ	Χ	Χ	Χ
	MultiCom 401	Χ	Х	X	X	X	Х	X