

UX⁺ SERIES

UPSONIC®



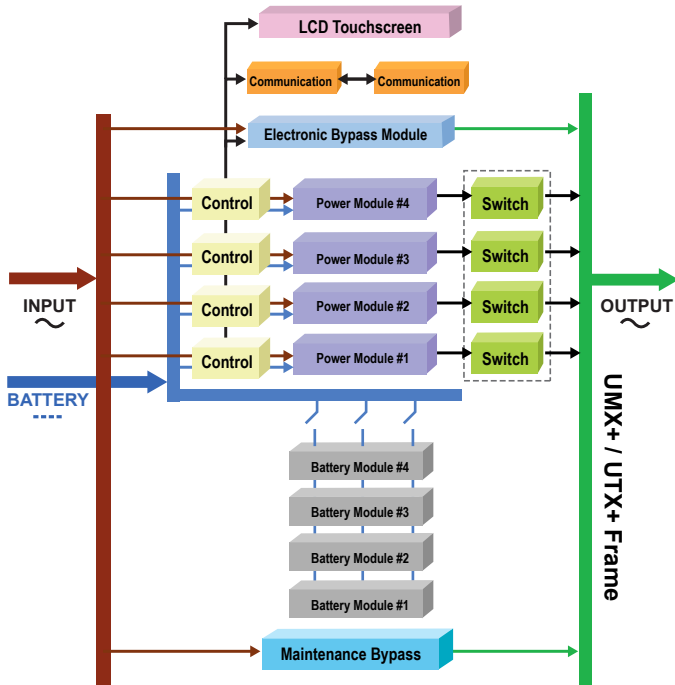
The UTX+ modular online UPS series, featured with DSP control, decentralized parallel structure, Modular N+X Parallel Redundancy, touch-screen LCD display, Hot swappable, intelligent battery protection voltage, intelligent charge modes with settable charge current, several communication protocols. This UPS is an ideal solution for workstations, servers, data centers for the commercial, financial, telocom, medical, industrial area or any Mission-Critical application, which is demanding for a reliable and complete protection.

Features

- ▶ Modular structure with Hot-swappable feature on Control, Power and Batteries.
- ▶ Modular N+1 or N+X Parallel Redundancy
- ▶ Unity Input Power Factor with Low Input Current Distortion & High Efficiency
- ▶ Fit into standard 19" Rack Frame
- ▶ Touch-screen LCD display for user's friendly operation
- ▶ High Power Density up to 30KVA N+1
- ▶ Invest As You Grow
- ▶ Compact in size of 6KVA and 10KVA modules
- ▶ Easy to expand power and backup time
- ▶ Emergency Power Off can be operated on site or remotely
- ▶ Modular battery system with common 12VDC batteries
- ▶ Monitoring System for Battery (Optional)
- ▶ Smart charging management system which controls the whole charging and discharging process.
- ▶ Several Communication protocol supported
- ▶ Powerfull charger built in Modular and UPS frame
- ▶ Battery Cold Start
- ▶ Matching modular battery cabinet available
- ▶ Superior MTBF (Mean Time Before Failure) and MTTR (Mean Time To Repair)

DSP Controlled Technology

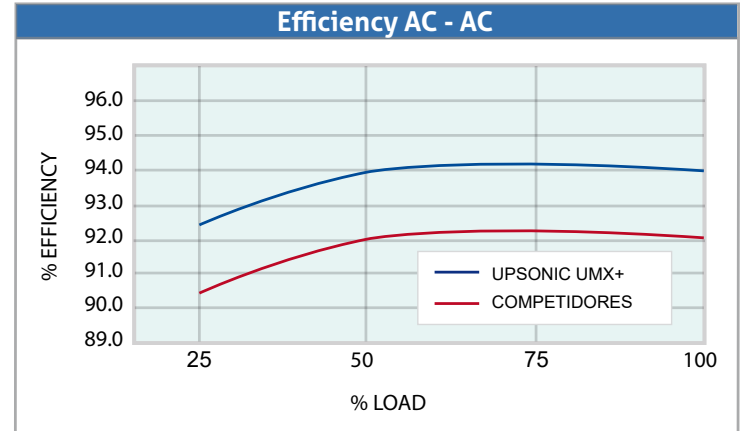
Advanced DSP control, the UMX+ Series offers maximum power density in the UPS field.



Parallel Modular UPS

Superior Efficiency Technology

The UMX+ Series offers higher efficiency than common systems of market, our efficiency is up to **94%** working in **online mode** from 50% load to 100% load.



N+1 and N+X Parallel Redundancy

Scalable architecture allows to optimize costs to meet power demands by vertical expansion in a single cabinet or horizontal paralleling from 30 up to 60kVA.



Compact in size

Very compact and high-efficient integrating power and battery modules in same cabinet.

POWER MODULES



Single unit Configuration for standard Rack mount or tower configuration with floor stabilizers

UMX+ Series design can be easily used as a single 6KVA or 12KVA UPS. This feature supports power, battery and manual bypass modules.



Modular N+X Parallel Redundancy

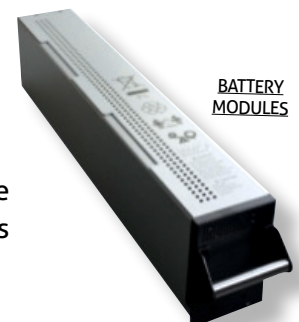
Thanks for our N+X parallel redundancy technology, can be freely set the modules connected according to the protection level required for growth or redundancy.

Superior MTBF and MTTR

Superior MTBF (625.000 hrs) and MTTR (>30 min) design minimizes service and maintenance costs on site, only simply exchanges the modules for an easy fault recovery.

Decentralized Parallel Structure with Hot-Swappable feature

Decentralized parallel structure reduces the Single points of failure as well as minimizes service and maintenance costs.



UMX+ Single Phase Modular UPS - 6~18 / 6~24 / 10~30KVA

Model			UMX+			
Main Cabinet Type	Unit Type		Transformer Based		Transformerless	
Capacity (VA/W)	Main Power Cabinet UPS		10 / 20 / 30KVA (N+1)		6/12/18KVA (N+1)	6/12/18/24 (N+1)
	UMX+ Power Modules		10KVA / 10KW		6KVA / 6KW	
Input	Phase		Single Phase 2 Wires + Neutral + Ground			
	Rated Voltage		200 / 208 / 220 / 230 / 240VAC			
	Voltage Range		-20% +20% (100% load) -30% +25% (optional)			
	Frequency Range		40Hz-70Hz			
	Power Factor		≥0.99 (100% load)			
	Current THDi		<3% (100% non linear load)			
	Bypass Voltage Range		Max. voltage: +15% (optimal +5%, +10%, +25%) Min. voltage: -45% (optional -20%, -30%) Frequency protection range: ±10%			
	Generator Input		Support			
	Output	Phase		Single Phase 2 Wires + Neutral + Ground		
Rated Voltage		120/240, 120/208 VAC		100/200, 110/220, 115/230, 120/240, 120/208, 127/220 VAC		
Power Factor		1.0				
Voltage Regulation		±1%				
Frequency		Utility Frame	50/60 Hz ±0.05%			
		Battery Mode	50/60 Hz ±0.025%			
Crest Factor		3:1				
THDv		<1% with linear load <2% with non linear load				
Waveform		Pure Sinewave				
Efficiency			94% Online mode / 99% Eco Mode			
Battery	DC Voltage		±240Vdc		±120Vdc	
	Recharge Time		4 hours to 90%			
	Charging Current		20% Active Power - (charge current can be set according to battery capacity installed)			
Transfer Time			Utility to Battery: 0ms; Utility to bypass: 0ms			
Protection	Overload	AC Mode	110%: constantly, <110%: last 30min, ≤125%: last 10min, ≤150%: last 1min, ≥150% 200ms			
		Bypass Mode	110%: constantly, <110%: last 60min, ≤125%: last 30min, ≤150%: last 10min			
	Short Circuit Rating		Support the whole system - 65kA			
	Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately			
	Battery Low		Alarm and Switch off			
	Self-diagnostics		Upon Power On and Software Control			
	EPO (optional)		Shut down UPS immediately			
	Battery		Advanced Battery Management - (Monitoring System for Battery - Optional)			
Alarms	Maintenance Bypass		Standard - Internal MBB (Optional - External MBB)			
	Audible & Visual		Line Failure, Battery Low, Overload, System Fault			
Display	Status LED & LCD		7" Full Color Touchscreen LCD + LEDS indicates: Line Mode, Backup -mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault			
	Reading On the LCD		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature			
Communication Interface			RS232, RS485, Intelligent slot x 2, Dry Contact			
Environment	SNMP		Includes SNMP Slot and Interface			
	Operating Temperature		-10°C~45°C			
	Storage Temperature		-25°C~+70°C			
	Humidity		0~95% non condensing			
	Noise (dB) @ 1 meter		50 (10KVA), 55 (20KVA), 60 (30KVA), 65 (30KVA N+1)		48 (6KVA), 50 (12KVA), 52 (18KVA), 55 (24KVA), 58 (30KVA)	
	Altitude		1500m (No Derate) / 3000m (Max)			
Industry Standard			CE / FCC (15) B-A / ROHS / UL1778 / CSA C22.2 / IEEE 587 (ANSI C62.41) EN/IEC 62040-1-1 EN/IEC 62040-1-2 / EN/IEC 62040-2 / IEC 62040-3 / IEC 62040-3 (NEMA PE1:2003) / EN60950 / EN50091-1 / EN 55022-A / EN 61000 - 4.2.3.4.5.6.8.9.11 LEVEL III / IEC60664-1 LEVEL IV / EMC-A			
			ISO 9001:2008 / ISO 14001:2004			

UMX+ Modules			
Model	Description	Dimension (WxHxD)	Net Weight (Kg)
UMX+6K-PM	6KVA 1/1 - Power Modulo	418x129x678mm 3U	18.0
UMX+10K-PM	10KVA 1/1 - Power Module	436x85x590mm 2U	22.5
UM+-B09	10x 12V 9AH - Battery Module		35.0
UM+-B12	10x 12V 12AH - Battery Module		40.0

Bastidores UPS UMX+					
Modelo	Description	Power Bays	Battery Bays	Dimension (WxHxD) mm	Weigh (Kg)
UMX+ 6-24K	Power Cabinet UPS of 24KVA	Max. 4x 6KVA Power Modules	Max. 8x Battery Modules 10 pcs	600x1500x1100	195
UMX+ 6-30K	Power Cabinet of 30KVA (N+1)	Max. 6x 6KVA Power Modules	Max. 12x Battery Modules 10 pcs	600x2000x1100	227
UMX+ 10-30K	Power Cabinet of 30KVA (N+1)	Max. 4x 10KVA Power Modules	Max. 8x Battery Modules 10 pcs	600x1700x1000	345

*Specifications subject to change without prior notice. **Some systems may require isolation transformers for special voltages