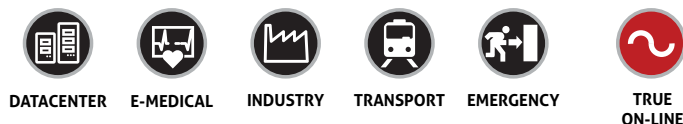


UTX+ SERIES

UPSONIC®



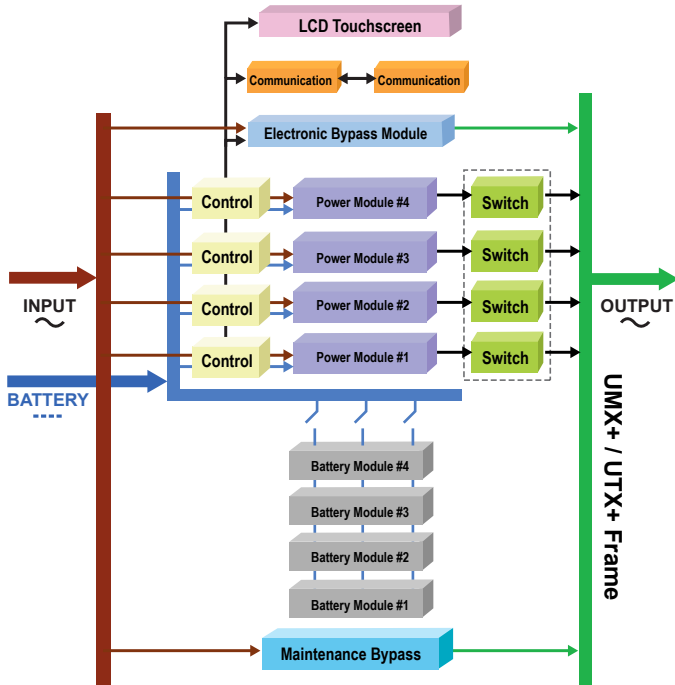
The UTX+ modular on-line UPS series, featured with DSP control, decentralized parallel structure, Modular N+X Parallel Redundancy, touch-screen LCD display, Hot-swappable, intelligent battery protection voltage, intelligent charge modes with settable charge current, and several communication protocols. 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 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 200kVA (N+1)
- ▶ Invest As You Grow
- ▶ Compact in size of 20kVA and 30kVA 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)
- ▶ A smart charging management system which controls the whole charging and discharging process.
- ▶ Many Communication protocols supported
- ▶ Powerful charger built-in Modular and UPS frame
- ▶ Battery Cold Start
- ▶ Matching modular battery cabinet available
- ▶ Superior MTBF (Mean Time Before Failure)
- ▶ Minor MTTR (Mean Time To Repair)

DSP Controlled Technology

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



Parallel Modular UPS

POWER 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

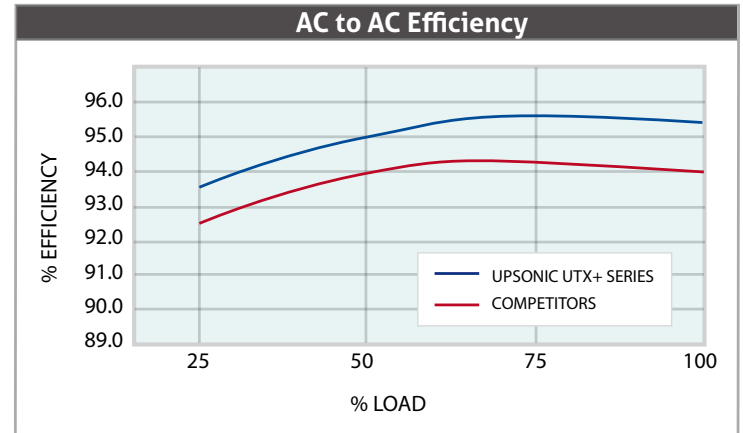
Superior MTBF (625,000 hrs) and MTTR (>30 min) design minimizes service and maintenance costs on site, only simply exchanges the modules for an easy fault recovery.

Decentralized Parallel Structure with Hot-Swappable feature

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

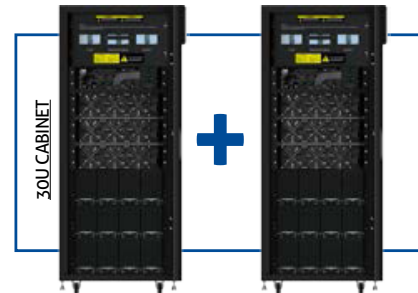
Superior Efficiency Technology

The UTX+ Series offers higher efficiency than common systems of market, our efficiency is up to **95.5%** working in **on-line 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 20kVA up to 200kVA.



Compact in size

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

Fits into standard 19" Rack Frame

Using standard 19" Rack Frame, the UTX+ Series modules with special rear configuration may be easily fitted in.

BATTERY MODULES



UTX+ Three Phase Modular UPS - 20~200KVA

Model			UTX+	UTX+
Capacity (VA/W)	UPS Frame		From 20KVA up to 120KVA	From 20KVA up to 200KVA
	UTX+ Module		20~30 KVA/KW (modules are exchangeable between 20KVA and 30KVA for power demand)	
Input	Phase		Three Phases (4 Wires + Ground)	
	Rated Voltage		208 or 480 VAC (3Ph+N)	
	Input Range	Full / Half Load	±20% no battery discharge / +20% -40% no battery discharge	
		Max. Tolerance	+25% -40% w/ battery discharge or load depending	
	Frequency Range		40Hz-72Hz	
	Power Factor		≥0.99	
	Current THDi		<3% (100% non linear load), <1% (100% linear load)	
	Bypass Voltage Range	Max. voltage: +10% (optinal +5%, +15%, +20%)		
		Min. voltage: -10% (optional -15%, -20%)		
Generator Input		Frequency protection range: ±10% Support		
Output	Phase		Three Phases (4 Wires + Ground)	
	Rated Voltage		208/220/480 VAC (3Ph+N)	
	Galvanic Isolation		Optional (Under Request)	
	Power Factor		1.0	
	Voltage Regulation		±1% (static) ±2% (dynamic)	
	Frequency	Normal Mode	50/60 Hz ±0.05%	
		Battery Mode	50/60 Hz ±0.025%	
	Crest Factor		4:1	
	THDv		<1% with linear load / <3% with non linear load	
Waveform		Pure Sinewave		
Efficiency			95.5% on-line Mode / 99% eco Mode	
Battery	Type	Built-in Battery	External Battery	
	Voltage	±120Vdc		
	Charging Current	20% Active Power - (charge current can be set according to battery capacity installed)		
	Backup Time	Depends of internal modules installed or external batteries cabinets		
	Operation Temperature	20~30 °C		
Transfer Time			Utility to Battery: 0ms; Utility to bypass: 0ms	
Protection	Overload	AC Mode	≤110% constantly, ≤125% for 10min, ≤150% for 1min, >150% for 300ms	
		Bypass Mode	≤110% constantly, ≤125% for 30min, ≤150% for 10min, ≥200% for 300ms	
		Batt. Mode	≤110% for 10min, ≤125% for 1min, ≤150% for 10sec, >150% for 300ms	
	Short Circuit		Supports 65kA	
	Overheat		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS	
	Battery Low		Alarm and Switch off	
	Self-diagnostics		Upon Power On and Software Control	
	EPO / REPO (optional)		Shut down UPS immediately	
	Battery		Advanced Battery Management - (Monitoring System for Battery - Optional)	
Maintenance Bypass		Standard Internal (No Break) / External Optional (No Break)		
Alarms			Line Failure, Battery Low, Overload, System Fault	
Display	Status LED & LCD		Line Mode, Backup -mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault	
	LCD Readings		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature	
Communication			10" Full Color Touchscreen, EPO, REPO, USB, RS232, RS485, Intelligent slot x2, Dry Contacts, Parallel Port (Optional), Temperature Sensors (up to 6) Includes SNMP Interfase (Dual SNMP Optional) / HTTP(S) / SMTP / Modbus-TCP / BACnet-IP	
Environment	Operating Temperature		-10°C~45°C	
	Storage Temperature		-25°C~+55°C	
	Humidity		0~95% non condensing	
	Altitude		1500m (No Derate) / 3000m (Max)	
	Noise (dB) @ 1 meter		48 (20KVA), 52 (40KVA), 56 (60KVA), 60 (80KVA), 64 (100KVA), 68 (120KVA), 72 (140KVA), 76 (160KVA), 80 (180KVA), 84 (200KVA)	
Industry Standard			CE / FCC (15) B-A / ROHS / WEEE / REACH / UL1778 / CSA C22.2 / IEEE 587 (ANSI C62.41), ENERGY STAR QUALIFIED / EN/IEC 62040: 1-1 & 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 - 2.2 & 3.4 / IEC60664-1 LEVEL IV / EMC-A	
			ISO 9001:2008 / ISO 14001:2004	

UTX+ Modules			
Model	Description	Dimension (WxHxD)	Net Weight (Kg)
UTX+ PM20K	20KVA 3/3 Module	490x130x736mm 3U	34
UTX+ PM30K	30KVA 3/3 Module	490x130x736mm 3U	35
UTX+ BM-09	for 10pcs 9AH bat.	107x155x736mm	28

UTX+ UPS Frames			
Model	Description	Dimension (WxHxD) mm	Net Weight (Kg)
UTX+	3x Power Bays + 12 Battery Bays	600x1475x1100mm 30U	290
	4x Power Bays + 16 Battery Bays	600x2000x1100mm 42U	329
	6x Power Bays + External Matching Battery Cabinet	600x1475x1100mm 30U	430
	8x Power Bays + External Matching Battery Cabinet	600x2000x1100mm 42U	535

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