ERX
UNINTERRUPTIBLE POWER SUPPLY

OLT TOWER SERIES

Model 6KVA OLT Tower
Model 10KVA OLT Tower

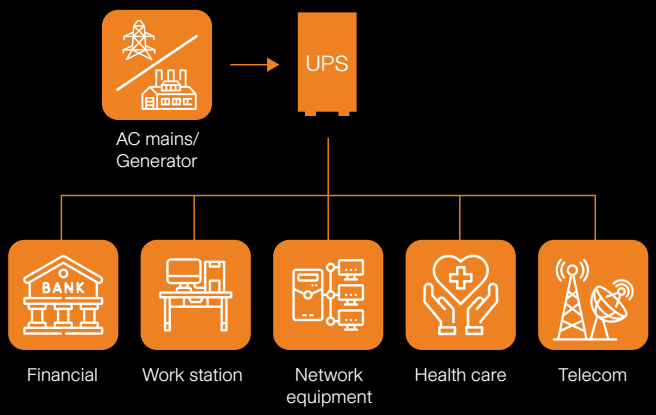
sine wave output | LCD display | back up time | built-in batteries | HID

- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Low audible noise at typical load
- Dot matrix LCD support up to 8 languages for easy installation and service.
- Embedded Ethernet port solution provide safe network connection to Cloud which will meet the increasing IoT trend
- WLAN module for IoT connection
- USB HID enable monitoring on UPS without software installation
- Dry contactor for industrial condition
- Upgraded network card compliance with IEC standard cybersecurity

Key features

- True double-conversion design with high adaptability to harsh mains conditions
- Real PF 1 can provide more power in same space
- High efficiency results in energy saving
- Adjustable charging current and flexible battery configuration
- Optimized charging method to expand battery life time

Typical application



New full range double conversion UPS

High density, true double conversion on-line power protection for IT (Information Technology) and OT (Operation Technology) applications.

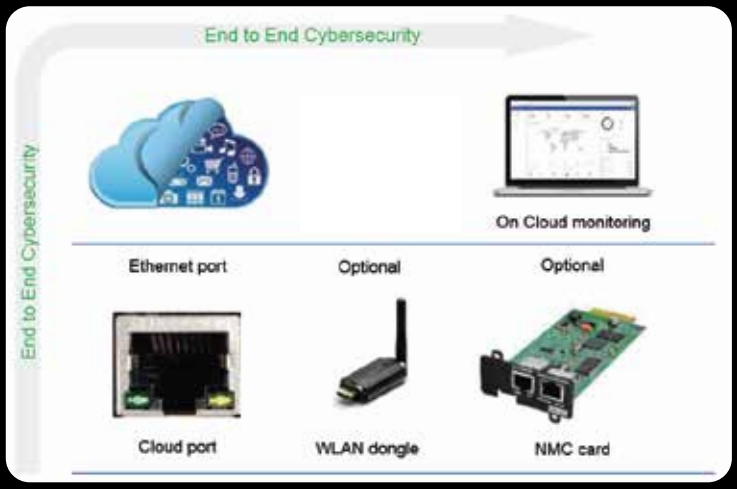
These latest range of UPS comes with future-proof connectivity design having the capability to connect to cloud seamlessly to allow the monitoring of the UPS online through any internet connected device. To ensure users information is safe and protected, these connectivity is compliant with IEC standard cybersecurity.

Model 6KVA OLT Tower

Model 10KVA OLT Tower

Network connected and data to cloud

- Easy to setup the Safe connection to Cloud
- Connect to Cloud through MQTT protocol (the most widely used IoT protocol)
- Real time health monitoring on the equipment to enable business continuity and failure prevention
- Remote monitoring, scheduled maintenance and UPS firmware upgrade *
- Improve the data visibility to the service people and end user
- Reduce the responsive time on product failure as Cloud push the exact information to end user and service people at the same time
- Create value added service opportunities based on digitalization transformation



Model name		ERX 6KOLT Tower	ERX 10KOLT Tower
Power rating	VA/Watt	6000VA/5400W	10000VA/10000W
Efficiency	Double coversion mode	95%	95%
	ECO mode	98%	98%
Input performance	Voltage range	160-275V 100% load, 110-160V derating to 50% load linearly	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly
	Rated frequency	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz) 54Hz-66Hz @ load>60%	40Hz-70Hz(45Hz-55Hz) 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)
	PF	>0.995	>0.95 at 3 phase input >0.99 at 1 phase input
	THDI	<3% linear load <5% non linear load	<30% at 3 phase input <5% at 1 phase input
Input connection		L/N/PE hardwire terminal connection	L1/L2/L3/N/PE or L/N/PE hardwire terminal connection
Output performance	Rated voltage	220/230/240V	220/230/240V
	Rated frequency	50Hz/60Hz	50Hz/60Hz
	Maximum PF	1	1
	Voltage accuracy	±1%	±1%
	THDv	<1% linear load <5% non linear load	<1% linear load <5% non linear load
	Transfer time	0ms(10ms @ ECO - > Inverter)	0ms(10ms @ ECO ->Inverter)
	Crest Ratio	max 3:1	max 3:1
	Overload	100%<load ≤105% continuous. 105%< load ≤125% for 10 minutes 125<load ≤150% for 30seconds. >150% for 500ms.	100%<load ≤105% continuous. 105%< load ≤125% for 10 minutes 125<load ≤150% for 30seconds. >150% for 500ms.
Output connection	Wiring/socket	L/N/PE hardwire terminal connection	L/N/PE hardwire terminal connection
Battery	Voltage	192VDC (192~240VDC adjustable)	192VDC (192~240VDC adjustable)
	Capacity(AH)	16*12V/9Ah, 16~20pcs adjustable	16*12V/9Ah, 16~20pcs adjustable
	Backup time (Typical value by default battery capacity, PF=0.9)	5 - 15 min 100% load (IT Load)	5 - 15 min 100% load (IT Load)
Maximum connect external battery module quantity		6	6
Charger	Charging current	1.4A (0-4A adjustable)	2A (0-13A adjustable)
	Recharging time	3h to 90%	3h to 90%

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Model name		ERX 6KOLT Tower	ERX 10KOLT Tower
Other working mode	CVCF	Yes (derating to 60% load)	Yes (derating to 60% load @1 phase in and 1 phase out mode)
	Parallel	Optional (up to 3)	Optional (up to 3)
HMI(human-machine interface)	Display	Multi-language dot matrix LCD	Dot matrix LCD
	Language	8 Languages	8 Languages
	USB	USB 2.0 with HID	USB 2.0 with HID
	RS232	Yes(DB9)	Yes(DB9)
	Dry in/out	1 programmable dry in; 1programmable dry out	1 programmable dry in; 1programmable dry out
	EPO	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card
	WLAN module	Optional,HDMI type	Optional,HDMI type
	Ethernet port for IOT	RJ45	RJ45
	Monitor software	Winpower	Winpower
Physical performance	Dimension(W*D*H)MM	225*416*589	225*416*589
	Weight (kg.)	57.9	68.7
	IP protection level	IP20	IP20
Environment	Operating temperature	0-50˚C (power derating to 50% @40-50˚C)	0-50˚C (power derating to 50% @40-50˚C)
	Relative Humidity	0-95%	0-95%
	Operating Altitude	0~3000m(the load derating 1 % every up 100m @1000~3000m)	0~3000m(the load derating 1 % every up 100m @1000~3000m)
	Acoustic Noise	<50dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C3	C3
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	Standard offer	Standard offer
	Input power cable	NA	NA
	Output power cable	NA	NA
	EBM cable	yes(in EBM)	yes(in EBM)
	USB cable	yes	yes
	RS232 cable	Optional	Optional
	Manual	Yes	Yes
	Rail Kit	No	No
Up Connex Box		Yes	
Up Connex Server		Yes	
TISI		มอก 1291 เล่ม 1-2553, 1291 เล่ม 2-2553 และ 1291 เล่ม 3-2555	

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