

OLT TOWER SERIES



Model ERX 1000OLT Tower
Model ERX 2000OLT Tower
Model ERX 3000OLT Tower



sine wave
output



LCD
display



back up
time



built-in
batteries

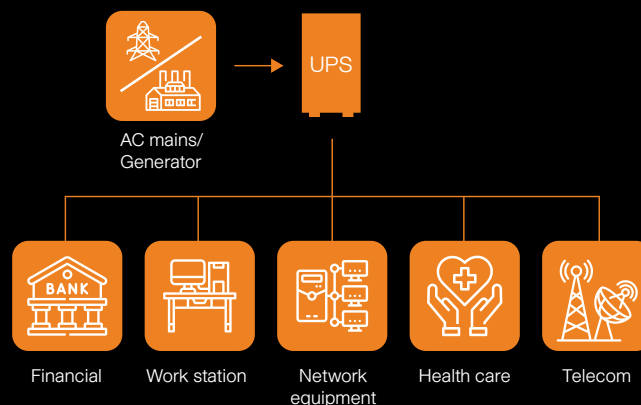


- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Low audible noise at typical load
- Dot matrix LCD support up to 8 languages for easy 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.

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



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Model name		ERX 1000OLT Tower	ERX 2000OLT Tower	ERX 3000OLT Tower
Power rating	VA/Watt	1000VA/900W	2000VA/1800W	3000VA/2700W
Efficiency	Double conversion mode	89%	92%	93%
	ECO mode	96%	97%	97%
Input performance	Voltage range	160-300V 100% load, 110-160V derating to 50% load linearly	160-300V 100% load, 110-160V derating to 50% load linearly	160-300V 100% load, 110-160V derating to 50% load linearly
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
	PF	>0.99	>0.99	>0.99
	THDI	<5%	<5%	<5%
Input connection		IEC C14	IEC C20	IEC C20
Output performance	Rated voltage	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Maximum PF	0.9	0.9	0.9
	Voltage accuracy	±1%	±1%	±1%
	THDv	<1% linear load <5% non linear load	<1% linear load <5% non linear load	<1% linear load <5% non linear load
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1
	Overload	100%< load ≤ 105% continuous. 105%< load ≤ 125% for 3 minutes 125%<load ≤ 150% for 30 seconds. >150% for 500ms.	100%< load ≤ 105% continuous. 105%< load ≤ 125% for 3 minutes 125%<load ≤ 150% for 30 seconds. >150% for 500ms.	100%< load ≤ 105% continuous. 105%< load ≤ 125% for 3 minutes 125%<load ≤ 150% for 30 seconds. >150% for 500ms.
Output connection	Wiring/socket	4 x Thai Outlet + hardwire terminal	8 x Thai Outlet + hardwire terminal	8 x Thai Outlet + hardwire terminal
Battery	Voltage	36VDC	72VDC	72VDC
	Capacity(Ah)	3 x 12V/7Ah	6 x 12V/7Ah	6 x 12V/9Ah
	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)	5 - 15 min 100% load (IT Load)
Maximum connect external battery module quantity		4	4	4
Charger	Charging current	1.5A	1.5A	1.5A
	Recharging time	3h to 90%	3h to 90%	3h to 90%
Other working mode	CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
	Parallel	no	no	no

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HMI(human-machine interface)	Display	Dot matrix LCD (optional segment LCD)	Dot matrix LCD (optional segment LCD)	Dot matrix LCD (optional segment LCD)
	Language	8 Languages	8 Languages	8 Languages
	USB	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID
	RS232	Yes(DB9)	Yes(DB9)	Yes(DB9)
	Dry in/out	1 programmable dry in 1 programmable dry out	1 programmable dry in 1 programmable dry out	1 programmable dry in 1 programmable dry out
	EPO	yes	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card
	WLAN module	Optional,HDMI type	Optional,HDMI type	Optional,HDMI type
	Ethernet port for IOT	RJ45	RJ45	RJ45
	Monitor software	Winpower	Winpower	Winpower
Physical performance	Dimension(W*D*H)MM	195*421*318	195*421*318	195*421*318
	Net Weight (Kg.)	12.8	26	26.4
	IP protection level	IP20	IP20	IP20
Environment	Operating temperature	0-45°C (power derating to 80% @40-45°C)	0-45°C (power derating to 80% @40-45°C)	0-45 °C (power derating to 80% @40-45°C)
	Relative Humidity	0-95%	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)	0~3000m(the load derating 1 % every up 100m @1000~3000m)
	Acoustic Noise	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C2	C2	C2
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	NA	NA	NA
	Input power cable	yes	yes	yes
	Output power cable	yes,1*10A	yes,1*10A	yes,1*10A
	EBM cable	yes(in EBM)	yes(in EBM)	yes(in EBM)
	USB cable	yes	yes	yes
	RS232 cable	Optional	Optional	Optional
	Manual	Yes	Yes	Yes
	Tower Feet	Yes	Yes	N/A
Up Connex Box	Yes			
Up Connex Server	Yes			
TISI	มอก 1291 เล่ม 1-2553, 1291 เล่ม 2-2553 และ 1291 เล่ม 3-2555			