CSCT Tower Series
1-3K

Typical application

AC mains/
Generator

UPS

Financial   Work station   Network
equipment

Health care   Telecom
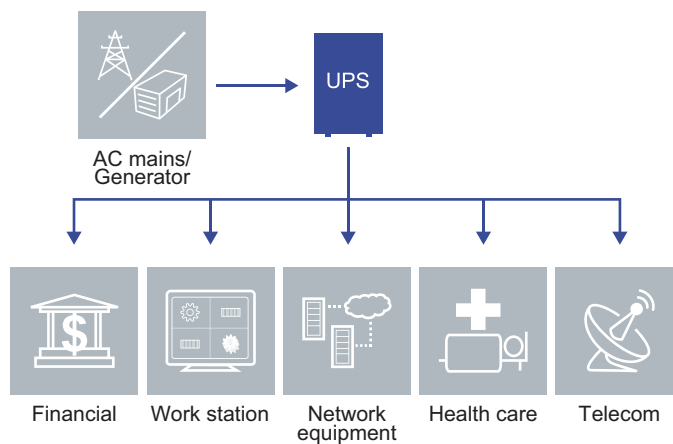
Key features

- 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 changing method to expand battery life time
- 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 10 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
- Mobile APP for monitoring, configuration. Support Android/iOS
- USB HID enable monitoring on UPS without software installation
- Dry contactor for industrial condition
- Upgraded network card compliance with IEC standard cybersecurity

sinewave output

LCD display

Up to 9 min
backup time

built-in batteries

HID

UPSONIC POWER

New full range double conversion UPS

High density, true double conversion on-line power protection for IT (Information technology) and OT (operation technology) applications. Capable of supporting loads from 1 to 20kVA in a compact tower form.

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.
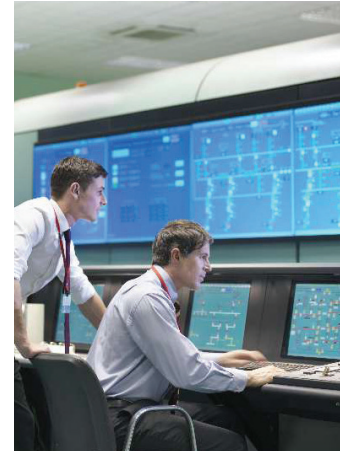
Network connected and data to cloud

- 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
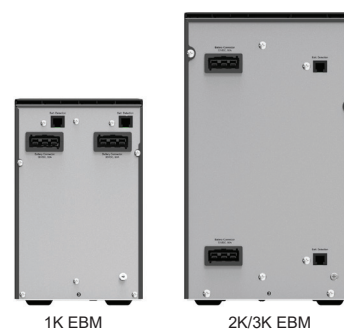- Create value added service opportunities based on digitalization transformation
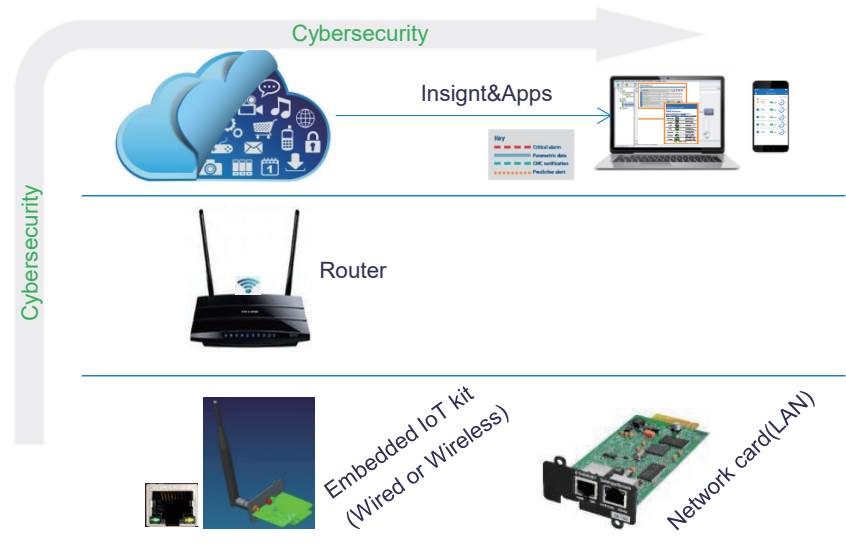
* Will be launched soon

Product rear panel

| 1K/1KS AUS | 2K/2KS/3K AUS | 3KS AUS | | 1K EBM | 2K/3K EBM |

Cloud Series Cirrus Tower 1-3K AUS rear panel

Cloud Series Cirrus Tower 1-3K EBM rear pane

Product specification

Model name		CSCT-1000	CSCT-1000 LR
Power rating	VA/Watt	1000VA/1000W	
Efficiency	Double coversion mode	89%	
	ECO mode	96%	
Input performance	Voltage range	160-300V 100% load, 110-160V derating to 50% load linearly	
	Rated frequency	50Hz/60Hz	
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	
	PF	>0.99	
	THDI	<5%	
Input connection		IEC C14	
Output performance	Rated voltage	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)	
	Rated frequency	50Hz/60Hz	
	Maximum PF	1	
	Voltage accuracy	±1%	
	THDv	<1% linear load <5% non linear load	
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <->Inverter)	
	Crest Ratio	max 3:1	
	Overload	100%<load≤105% continuous. 105%< load ≤125% for 3 minutes 125<load≤150% for 30 seconds. >150% for 500ms.	
Output connection	Wiring/socket	2 * AU	
Battery	Voltage	36VDC	
	Capacity(AH)	3 x 12V/7Ah	NA
	Backup time Typical value by default battery capacity, PF=1	"3.0min 100% load 12.2min 50% load"	NA
Maximum connect external battery module quantity		4	
Charger	Charging current	1.5A	8A
	Recharging time	3h to 90%	NA
Other working mode	CVCF	Yes (derating to 60% load)	
	Parallel	no	

Product specification

Model name		CSCT-1000	CSCT-1000 LR
HMI(human-machine interface)	Display	Dot matrix LCD, (optional segment LCD)	
	Language	10 Languages	
	USB	USB 2.0 with HID	
	RS232	Yes(DB9)	
	Dry in/out	1 programable dry in; 1 programable dry out	
	EPO	yes	
	Intelignet slot	yes(for long card)	
	Network card	Optional, NMC long card	
	Modbus card	Optional,CMC/Modbus Long Card	
	Dry contactor card	Optional,AS400 Long Card	
	WLAN module	Optional,HDMI type	
	Ethernet port for IOT	RJ45	
	Monitor software	Winpower	
Physical performance	Dimension(W*D*H)MM	145*397*220	
	IP protection level	IP20	
Environment	Operating temperature	0-45℃(power derating to 80% @40-45℃)	
	Relative Humidity	0-95%	
	Operating Altitude	0~3000m(the load derating 1 % every up 100m @1000~3000m)	
	Acoustic Noise	<45dB @ typical load with battery fully charged	
Certification		CE,IEC/EN 62040	
EMI	Conduction/Radiation	C2	
EMS	ESD	IEC/EN 61000-4-2	
	RS	IEC/EN 61000-4-3	
	EFT	IEC/EN 61000-4-4	
	Surge	IEC/EN 61000-4-5	
Accessory	Maintenance bypass switch	NA	
	Input power cable	yes	
	Output power cable	yes,1*10A	
	EBM cable	yes(in EBM)	
	USB cable	yes	
	RS232 cable	Optional	
	Manual	Yes	

Product specification

Model name		CSCT-2000	CSCT-2000 LR	CSCT-3000	CSCT-3000 LR
Power rating	VA/Watt	2000VA/2000W		3000VA/3000W	
Efficiency	Double coversion mode	93%			
	ECO mode	97%			
Input performance	Voltage range	160-300V 100% load, 110-160V derating to 50% load linearly			
	Rated frequency	50Hz/60Hz			
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)			
	PF	>0.99			
	THDI	<5%			
Input connection		IEC C20			L/N/PE hardware terminnal connection
Output performance	Rated voltage	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V)			
	Rated frequency	50Hz/60Hz			
	Maximum PF	1			
	Voltage accuracy	±1%			
	THDv	<1% linear load <5% non linear load			
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <->Inverter)			
	Crest Ratio	max 3:1			
	Overload	100%<load≤105% continuous. 105%< load ≤125% for 3 minutes 125<load≤150% for 30 seconds. >150% for 500ms.			
Output connection	Wiring/socket	4* AU		4* AU + hardwire terminal	
Battery	Voltage	72VDC			
	Capacity(AH)	6 x 12V/7Ah	NA	6 x 12V/9Ah	NA
	Backup time Typical value by default battery capacity, PF=1	"3.3min 100% load 12.9min 50% load"	NA	"2.5min 100% load 9.3min 50% load"	NA
Maximum connect external battery module quantity		4			
Charger	Charging current	1.5A	8A	1.5A	8A
	Recharging time	3h to 90%	NA	3h to 90%	NA
Other working mode	CVCF	Yes (derating to 60% load)			
	Parallel	no			

Product specification

Model name		CSCT-2000	CSCT-2000 LR	CSCT-3000	CSCT-3000 LR
HMI(human-machine interface)	Display	Dot matrix LCD, (optional segment LCD)			
	Language	10 Languages			
	USB	USB 2.0 with HID			
	RS232	Yes(DB9)			
	Dry in/out	1 programble dry in; 1 programble dry out			
	EPO	yes			
	Intelignet slot	yes(for long card)			
	Network card	Optional, NMC long card			
	Modbus card	Optional,CMC/Modbus Long Card			
	Dry contactor card	Optional,AS400 Long Card			
	WLAN module	Optional,HDMI type			
	Ethernet port for IOT	RJ45			
	Monitor software	Winpower			
Physical performance	Dimension(W*D*H)MM	195*421*318			
	IP protection level	IP20			
Environment	Operating temperature	0-45℃(power derating to 80% @40-45℃)			
	Relative Humidity	0-95%			
	Operating Altitude	0~3000m(the load derating 1 % every up 100m @1000~3000m)			
	Acoustic Noise	<50dB @ typical load with battery fully charged			
Certification		CE,IEC/EN 62040			
EMI	Conduction/Radiation	C2			
EMS	ESD	IEC/EN 61000-4-2			
	RS	IEC/EN 61000-4-3			
	EFT	IEC/EN 61000-4-4			
	Surge	IEC/EN 61000-4-5			
Accessory	Maintenance bypass switch	NA			
	Input power cable	yes			No
	Output power cable	yes,1*10A			
	EBM cable	yes(in EBM)			
	USB cable	yes			
	RS232 cable	Optional			
	Manual	Yes			