

Unity IOT RT Tower Series 15-20KVA

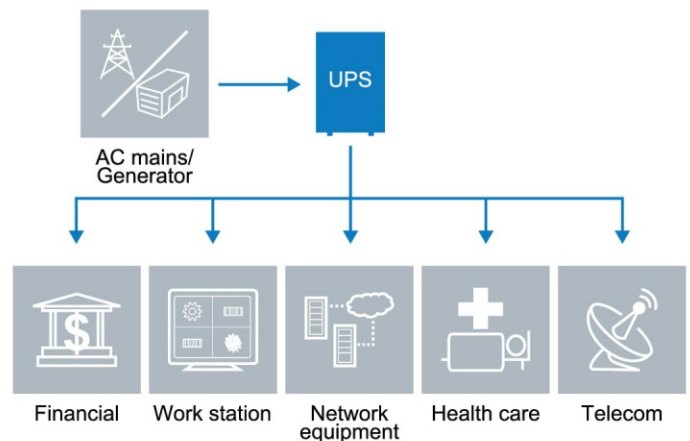


- Built-in OVCD protection, short-circuit, battery low warning fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Low audible noise at typical load
- Dot matrix LCD support up to 10 languages for easy installation and service. 15-20K 3-3 model support colorful touchable LCD display with gravity sensor
- 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

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
- ABM function: Automatic Battery Management – Automatic battery test and warning before the end of useful battery life
- Adjustable charging current and flexible battery configuration
- Optimized charging method to expand battery life time
- 15-20K 3-3 model can be configure as 3-1 or 1-1 model to meet utility and load wiring
- 15-20K 3-3 model can be configure as single source input or dual source input for utility and bypass

Typical application



New full range double conversion UPS

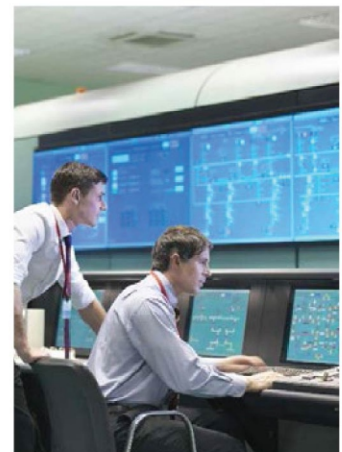
High density, true double conversion on-line power protection for IT (Information technology) and OT (operation technology) applications. Capable of supporting loads from 1 to 20kVA in a compact tower form.

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.

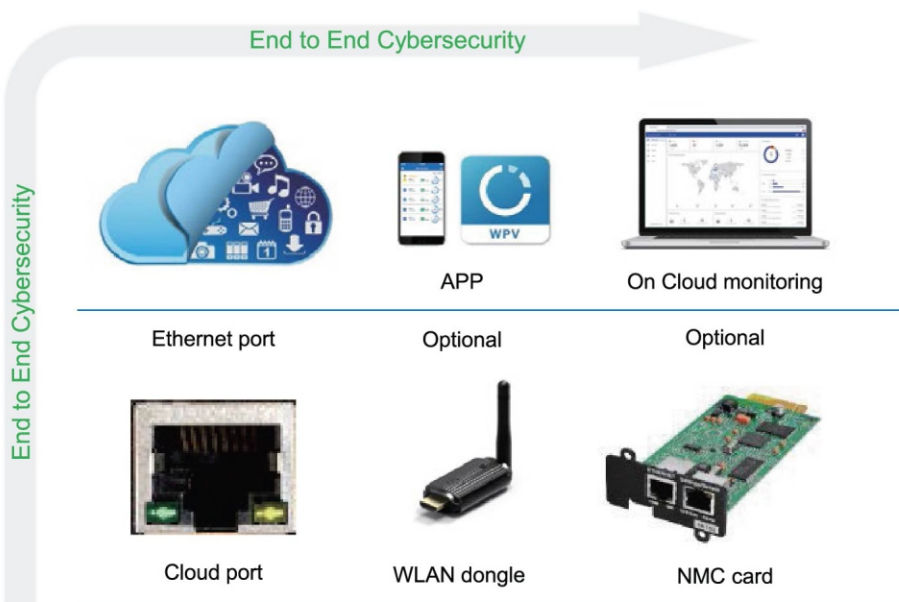


Network connected and data to cloud

- 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 specification

Model name		RT 15K 3-3	RT 15KS 3-3	RT 20K 3-3	RT 20KS 3-3
Power rating	VA/Watt	15000VA/15000W	15000VA/15000W	20000VA/20000W	20000VA/20000W
Efficiency	AC/AC mode	≥ 97%	≥ 97%	≥ 97%	≥ 97%
	ECO mode	98.8%	98.8%	99%	99%
Input performance	Voltage range	80-300Vac (L-N) 1 phase 135 – 485Vac (L-L) 3 phase	80-300Vac (L-N) 1 phase 135 – 485Vac (L-L) 3 phase	80-300Vac (L-N) 1 phase 135 – 485Vac (L-L) 3 phase	80-300Vac (L-N) 1 phase 135 – 485Vac (L-L) 3 phase
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)
	PF	>0.995	>0.995	>0.995	>0.995
	THDI	<3%	<3%	<3%	<3%
Input connection		L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass
Output performance	Rated voltage	220/230/240V or 380/400/415V	220/230/240V or 380/400/415V	220/230/240V or 380/400/415V	220/230/240V or 380/400/415V
	Rated frequency	50Hz/60Hz ±1%	50Hz/60Hz ±1%	50Hz/60Hz ±1%	50Hz/60Hz ±1%
	Maximum PF	1	1	1	1
	Voltage accuracy	±1%	±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	<1% linear load <5% non linear load
	Transfer time	0ms(2ms @ ECO+ →In- verter)	0ms(2ms @ ECO+ →In- verter)	0ms(2ms @ ECO+ →In- verter)	0ms(2ms @ ECO+ →In- verter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
Output connection	Overload	100%<load≤105% continu- ous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continu- ous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continu- ous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continu- ous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.
	Wiring/socket	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection	L1/L2/L3/N/PE or L/N/ PE hardware terminal connection
	Voltage	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)
	Capacity(AH)	2*16*12V/7Ah, 32~40pcs adjustable	NA	2*16*12V/9Ah, 32~40pcs adjustable	NA
Battery	Backup time Typical value by default battery capacity, PF=1	4.0min. at 100% load 9.0min. at 50% load	NA	4.0min. at 100% load 9.0min. at 50% load	NA
	Battery type	Valve-Regulated Sealed Lead-Acid (VRLA); Maintenance-free			
Maximum connect external battery module quantity		6	6	6	6
Charger	Charging current	1.5A(0-13A adjustalbe)	1.5A(0-13A adjustalbe)	2A(0-13A adjustalbe)	2A(0-13A adjustalbe)
	Recharging time	3h to 90%	NA	3h to 90%	NA

Product specification

Model name		RT 15K 3-3	RT 15KS 3-3	RT 20K 3-3	RT 20KS 3-3
Other working mode	CVCF	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)
	Parallel	Optional (up to 10)	Optional (up to 10)	Optional (up to 10)	Optional (up to 10)
HMI(human-machine interface)	Display	colour touch LCD (optional Dot matrix LCD)	colour touch LCD (optional Dot matrix LCD)	colour touch LCD (optional Dot matrix LCD)	colour touch LCD (optional Dot matrix LCD)
	Alarm	Warning alarm at AC abnormal; battery mode; battery low; overload; UPS fault....			
	Language	10 Languages	10 Languages	10 Languages	10 Languages
	USB	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID
	RS232/RS485	Yes(DB9)	Yes(DB9)	Yes(DB9)	Yes(DB9)
	Dry in/out	1 programble dry in; 1 programble dry out	1 programble dry in; 1 programble dry out	1 programble dry in; 1 programble dry out	1 programble dry in; 1 programble dry out
	EPO	yes	yes	yes	yes
	Intelignet slot	yes(for long card)	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	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long 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	Optional,AS400 Long Card
	WLAN module	Optional,HDMI type	Optional,HDMI type	Optional,HDMI type	Optional,HDMI type
	Ethernet port for IOT	RJ45	RJ45	RJ45	RJ45
	Monitor software	Winpower	Winpower	Winpower	Winpower
Physical performance	Dimension(W*D*H)MM	350*650*890	350*650*890	350*650*890	350*650*890
	IP protection level	IP20	IP20	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)	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%	0-95%	0-95%
	Operating Altitude	0~4000m(the load derating 1 % every up 100m @1000~4000m)	0~4000m(the load derating 1 % every up 100m @1000~4000m)	0~4000m(the load derating 1 % every up 100m @1000~4000m)	0~4000m(the load derating 1 % every up 100m @1000~4000m)
	Acoustic Noise	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C3	C3	C3	C3
EMS	ESD	IEC/EN 61000-4-2	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	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	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	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	Standard offer	Standard offer	Standard offer	Standard offer
	Input power cable	NA	NA	NA	NA
	Output power cable	NA	NA	NA	NA
	EBM cable	yes(in EBM)	yes(in EBM)	yes(in EBM)	yes(in EBM)
	USB cable	Yes	Yes	Yes	Yes
	RS232 cable	Optional	Optional	Optional	Optional
	Manual	Yes	Yes	Yes	Yes



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