UM-IP33 Rack/Tower

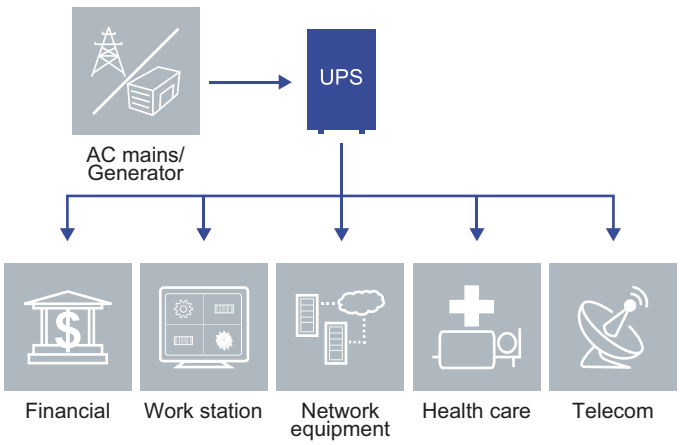
10-20kVA



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.
- 10-20K 3-3 model can be configure as 3-1 or 1-1 model to meet utility and load wiring
- 10-20K 3-3 model can be configure as single source input or dual source input for utility and bypass
- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Programmable outlet group will extend back up time for most critical equipment (6-20K need PDU model)
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Compact size requiring small installation space
- Low audible noise at typical load
- Support Color touchable LCD display with gravity sensors
- 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

Typical application





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 rack/tower convertible form with a 2U/3U space.

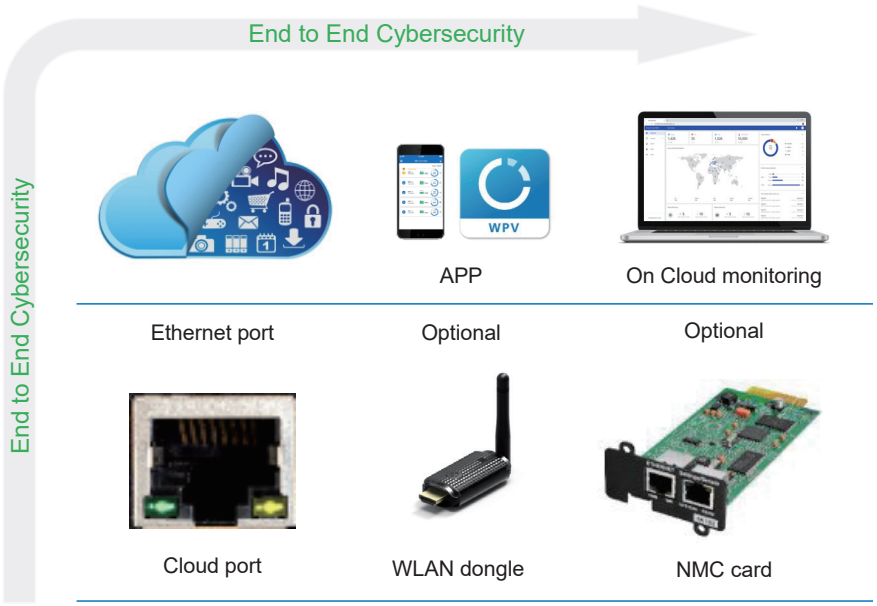
These latest range of UPS comes with future-proof connectivity design having the capability to connect to cloud seamlessly to allow the monitoring of the UPS online through any internet connected device. To ensure users information is safe and protected, these connectivity is compliant with IEC standard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



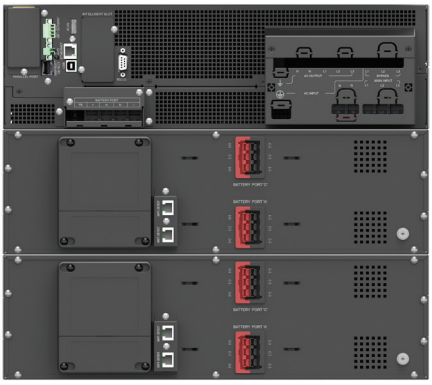


Network connected and data to cloud

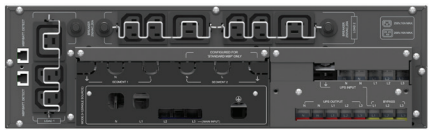
- Easy to setup the Safe connection to Cloud
- Connect to Cloud through MQTT protocol (the most widely used IoT protocol)
- Real time health monitoring on the equipment to enable business continuity and failure prevention
- Remote monitoring, scheduled maintenance and UPS firmware upgrade
- Improve the 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



Product rear panel



UM-IP33R/15S-20S

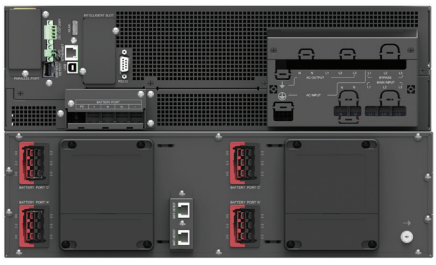


V-MBSPDU-R33





UM-BCR33/15K-20K



UM-IP33R/10S



UM-BCR33/10K

Product specification

Model name		UM-IP33R/10S	UM-IP33R/10L
Power rating	VA/Watt	10000VA/10000W	10000VA/10000W
Efficiency	Double coversion mode	95%	95%
	ECO mode	98%	98%
Input performance	Voltage range	160-300V (273-520) 100% load, 100-160V (173-273) 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% 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
	THDI	<3% linear load <5% non linear load	<3% linear load <5% non linear load
Input connection		L1/L2/L3/N/PE or L/N/PE hardware terminnal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/PE hardware terminnal 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
	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(2ms @ ECO+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)
	Crest Ratio	max 3:1	max 3:1
	Overload(line mode)	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.
Output connection	Wiring/socket	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection
	Load segment control	Optional (need MBP model)	Optional (need MBP model)
Battery	Voltage	192VDC(192~240VDC adjustable)	192VDC(192~240VDC adjustable)
	Capacity(AH)	2*8*12V/9Ah, 16~20pcs adjustable	NA
	Backup time Typical value by default battery capacity, PF=1	1.8min 100% load 4.5min 50% load	NA
Maximum connect external battery module quantity		6	6
Charger	Charging current	2A(0-13A adjustalbe)	2A(0-13A adjustalbe)
	Recharging time	3h to 90%	NA
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)
	Parallel	Optional (up to 3)	Optional (up to 3)

Product specification

Model name		UM-IP33R/10S	UM-IP33R/10L
HMI(human-machine interface)	Display	colour touch LCD （optional Dot matrix LCD）	colour touch LCD （optional Dot matrix LCD）
	Language	10 Languages	10 Languages
	USB	USB 2.0 with HID	USB 2.0 with HID
	RS232	Yes(DB9)	Yes(DB9)
	Dry in/out	1 programble dry in; 1 programble dry out	1 programble dry in; 1 programble dry out
	EPO	yes	yes
	Intelignet 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	6U height including 438*589*129(power module, 3U) 438*593*129 (Battery, 3U)	438*589*129(power module, 3U)
	IP protection level	IP20	IP20
Environment	Operating temperature	0-50ºC(power derating to 50% @40-50ºC ）	0-50ºC(power derating to 50% @40-50ºC ）
	Relative Humidity	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）
	Acoustic Noise	<55dB @ 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	Optional (need MBP model)	Optional (need MBP model)
	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
	Rail kit	Optional	Optional
	Tower Feet	Yes	Yes
	Rack ear	Yes	Yes
	Manual	Yes	Yes

Product specification

Model name		UM-IP33R/15S	UM-IP33R/15L	UM-IP33R/20S	UM-IP33R/20L
Power rating	VA/Watt	15000VA/15000W	15000VA/15000W	20000VA/20000W	20000VA/20000W
Efficiency	Double coversion mode	96%	96%	96%	96%
	ECO mode	98.8%	98.8%	98.8%	98.8%
Input performance	Voltage range	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly	160-300V (273-520) 100% load, 100-160V (173-273) 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	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% linear load <5% non linear load	<3% linear load <5% non linear load	<3% linear load <5% non linear load	<3% linear load <5% non linear load
Input connection		L1/L2/L3/N/PE or L/N/PE hardware terminnal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection Dual input for line and bypass	L1/L2/L3/N/PE or L/N/PE hardware terminnal 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	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	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+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
	Overload(line mode)	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 1 minutes >150% for 500ms.
Output connection	Wiring/socket	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection
	Load segment control	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)
Battery	Voltage	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)
	Capacity(AH)	2*16*12V/9Ah, 32~40pcs adjustable	NA	2*16*12V/9Ah, 32~40pcs adjustable	NA
	Backup time Typical value by default battery capacity, PF=1	2.0min 100% load 5.2min 50% load	NA	1.8min 100% load 4.7min 50% load	NA
Maximum connect external battery module quantity		6	6	6	6
Charger	Charging current	1.4A(0-13A adjustalbe)	1.4A(0-13A adjustalbe)	2A(0-13A adjustalbe)	2A(0-13A adjustalbe)
	Recharging time	3h to 90%	NA	3h to 90%	NA
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 3)	Optional (up to 3)	Optional (up to 3)	Optional (up to 3)

Product specification

Model name		UM-IP33R/15S	UM-IP33R/15L	UM-IP33R/20S	UM-IP33R/20L
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）
	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	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	9U height including 438*589*129(power module, 3U) (438*593*129)*2 (Battery, 6U)	438*589*129(power module, 3U)	9U height including 438*589*129(power module, 3U) (438*593*129)*2 (Battery, 6U)	438*589*129(power module, 3U)
	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	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)
	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
	Rail kit	Optional	Optional	Optional	Optional
	Tower Feet	Yes	Yes	Yes	Yes
	Rack ear	Yes	Yes	Yes	Yes
	Manual	Yes	Yes	Yes	Yes

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