



# ChargeUPS Unity IOT RT 10KS/15KS/20KS 3/3

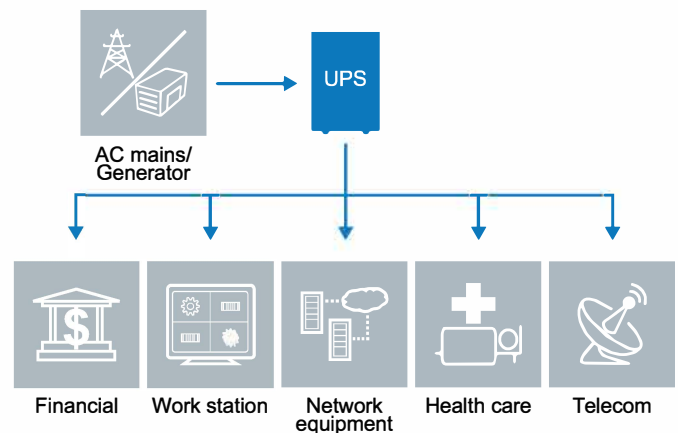


## Key features

- 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.
- 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
- Hot swappable battery will save customer service cost (For 1-3K standard UPS model)
- Low audible noise at typical load
- Dot matrix LCD support up to 10 languages for easy installation and service. 10-20K 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

## Typical application



## Product specification ( Torch 10/15/20KS 3/3 RT IoT )

Model name		Torch-10KS 3/3-RT-IoT	Torch-15KS 3/3-RT-IoT	Torch-20KS 3/3-RT-IoT
Power rating	VA/Watt	10000VA/10000W	15000VA/15000W	20000VA/20000W
Efficiency	Double conversion mode	95%	96%	96%
	ECO mode	98%	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)
	Rated frequency	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)
	PF	>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
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
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
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Maximum PF	1	1	1
	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(2ms @ ECO+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)	0ms(2ms @ ECO+ ->Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1
Overload(line mode)	105%< load ≤125% for 10 minutes	105%< load ≤125% for 10 minutes	105%< load ≤125% for 10 minutes	
Output connection	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
	Load segment control	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)
Battery	Voltage	192VDC(192~240VDC adjustable)	384VDC(384~480VDC adjustable)	384VDC(384~480VDC adjustable)
	Capacity(AH)	20*12V/9Ah, 16~20pcs adjustable (EBM)	40*12V/9Ah, 32~40pcs adjustable (EBM)	40*12V/9Ah, 32~40pcs adjustable (EBM)
	Backup time	"3.7min 100% load 8.7min 50% load"	"4.2min 100% load 9.8min 50% load"	"3.8min 100% load 9min 50% load"
Maximum EBM quantity		6	6	6
Charger	Charging current	2A(0-13A adjustable)	2A(0-13A adjustable)	2A(0-13A adjustable)
Parallel		Optional (up to 3)	Optional (up to 3)	Optional (up to 3)
HMI(human-machine interface)	Display	colour touch LCD	colour touch LCD	colour touch LCD
	Language	10 Languages	10 Languages	10 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	438*589*129(power module, 3U)	438*589*129(power module, 3U)	438*589*129(power module, 3U)
	IP protection level	IP20	IP20	IP20
Environment	Operating temperature	0-50°C	0-50°C	0-50°C
	Relative Humidity	0-95%	0-95%	0-95%
	Operating Altitude	0~4000m	0~4000m	0~4000m
	Acoustic Noise	<55dB	<55dB	<55dB
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C3	C3	C3
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

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