



# ChargeUPS Unity IOT Tower 1K/2K/3K

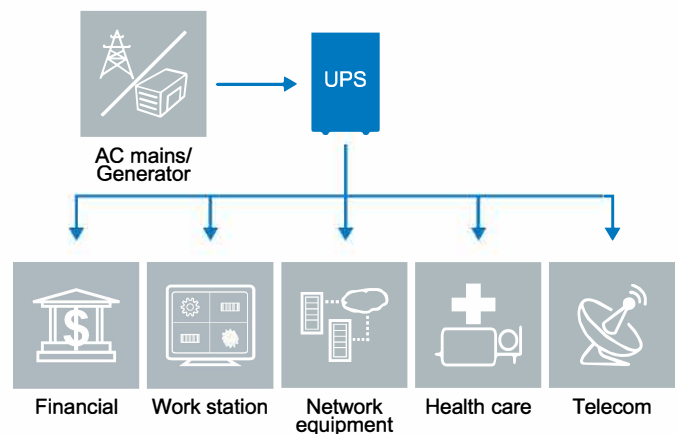


- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Low audible noise at typical load
- Dot matrix LCD support up to 10 languages for easy installation and service. 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

## 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

## Typical application



# Product specification ( Torch 1/2/3K Tower IoT )

Model name		Torch-1K-T-IoT	Torch-2K-T-IoT	Torch-3K-T-IoT
Power rating	VA/Watt	1000VA/1000W	2000VA/2000W	3000VA/3000W
Efficiency	Double conversion mode	89%	93%	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	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(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(line mode)	105%< load ≤125% for 3 minutes	105%< load ≤125% for 3 minutes	105%< load ≤125% for 3 minutes
Output connection	Wiring/socket	4 x Nema Universal socket	8 x Nema Universal socket	8 x Nema Universal socket + hardwire terminal
Battery	Voltage	36V/24VDC	72V/48VDC	72V/96VDC
	Capacity(AH)	3 x 12V/7Ah	6 x 12V/7Ah	6 x 12V/9Ah
	Backup time	"4.2min 100% load 11.8min 50% load"	"4.4min 100% load 12.5min 50% load"	"3.7min 100% load 10.1min 50% load"
Maximum EBM quantity		4	4	4
Charger	Charging current	1.5A	1.5A	1.5A
	Recharging time	3h to 90%	3h to 90%	3h to 90%
HMI(human-machine interface)	Display	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually
	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 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
	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	145*397*220	195*421*318	195*421*318
	IP protection level	IP20	IP20	IP20
Environment	Operating temperature	0-40°C	0-40°C	0-40°C
	Relative Humidity	0-95%	0-95%	0-95%
	Operating Altitude	0~3000m	0~3000m	0~3000m
	Acoustic Noise	<45dB	<50dB	<50dB
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

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