

1~3K-Li Online Tower UPS with Li-ion Battery



Feature:

01

Zero Transfer time

True Double Conversion Online UPS (IEC62040-3: VFI-SS), providing the most comprehensive protection for mission-critical equipment from a wide range of power quality issues.

02

3-level Inverter for the best loading capability

3 level inverter topology, supports with extensive range of load, including half-wave rectifier load (blow dryer, Solenoid valves, Laser printer etc.), Induction motors load., providing 0.9 Output Power Factor, 50/60 Hz Automatically adapting, Selectable voltage, perfectly match all kinds of application.

03

High Efficiency

With up to 93% efficiency in double conversion online mode and 97% ECO mode, greatly save energy expenses for customer in whole product life.

04

Li-ion Battery Powered

Provides up to 3x backup time in 50% dimension, compared with regular Lead-acid UPS products.

05

Li-ion Battery Charger

Constant current, Constant voltage, Floating, Turn-Off 4-state charger for Li-ion battery, with multiple loop independent monitor and protection mechanism, open to customize the logical behavior for customer-specified battery pack.

06

Best Loading Capability

Up to 0.9 Output Power Factor, 50/60 Hz automatically adapting, selectable voltage, perfectly matching all kinds of applications.

07

Genset Compatible

Capable of working with a wide range of Gensets, isolating fluctuations and noise from Gensets, providing stable and clean power supply to the user's equipment.

08

DSP Digital Control Based

Advanced DSP-based digital control brings high performance of high input Power factor, low distortion, supplying the load with perfect sine wave AC power supply.

09

Reliable design

Made with a strong Glass fiber base (FR4) double-sided PCB, company with large span component, greatly improving reliability in harsh environments, Well-designed ventilation and conformal coating, avoiding dust accumulation, improving resistance to corrosion.

Specification:

Model		C1K-Li	C1KS-Li	C2K-Li	C2KS-Li	C3K-Li	C3KS-Li
Capacity	VA/W	1kVA/900W		2kVA/1.8kW		3kVA/2.7kW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	L/N+PE					
	Rated Voltage	208/220/230/240VAC					
	Voltage Range	90~300VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	208/220/230/240VAC					
	Voltage Regulation	±1%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Sine Wave					
	Distortion (THDV%)	<2%(Linear Load)					
		<8%(None-Linear Load)					
	Over load capability	100%~105% continuous. 60Sec.@105%~125% Rated Load 10Sec.@125%~150% Rated Load 0.3Sec.@>150%Rated Load					
Efficiency	Line Mode	90%		91%		92%	
	Battery Mode	87%		88%		89%	
Battery & Charger	Rated Battery Voltage	51.2/48VDC(default for 16cell of LiFePO4)					
	Battery Capacity	615WH	External Battery	920WH	External Battery	1250WH	External Battery
	Backup Time	>30mins @ Full Load	Depends	>20mins @ Full Load	Depends	>20mins @ Full Load	Depends
	Backup Time 2 (External Battery Module)	51.2V50AH-150mins 51.2V100AH-300mins @ Full Load		51.2V50AH-75mins 51.2V100AH-150mins @ Full Load		51.2V50AH-50mins 51.2V100AH-100mins @ Full Load	
	Charging Current	1~3K Standard Model with Internal Battery:4A 1~2K Long Backup Time Model :4A / 8A(Optional)/ 12A(Optional) 3K Long Backup Time Model :6A / 12A(Optional)/ 16A(Optional)					
	Charging Voltage	56.8V(default for 16cell of LiFePO4) / Customerized according to battery request					
	Charger Behavior & Protection	CC. CV. Floating. Turn-Off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface					
	Physical	Chassis Style	Tower				
Dimension		1KS~3KS: 190×323×368MM 1K~3K:190×323×420MM					
Weight		10.8kg	7.0kg	16.5kg	7.3kg	18.0kg	7.9kg
HMI	LED DISPLAY	Mains / battery status, Load level, battery level, Operation Mode					
	LCD DISPLAY with LED indicator	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status,Battery SOC					
	Standards COMMUNICATION	1.RS232 PORT/USB Card (not HID) 2.Dry Contact Interface for BMS control 3.Modbus For BMS interface					
	Optional Extension Card	4.NetWork Card: Support SNMP/TCP/IP for remote monitoring the UPS via Smart Phone APP, Web page, PC Monitor Software , Support Server / NAS shutdown 5.RS485-Modbus Card, LAN(TCP IP)-Modbus Card, 6.Mini AS400 Relay Card					
Operating Environment	Temperature range	-10~50°C					
Endurance	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					