



Key Features:

- The 1-10KVA C series online high frequency UPS takes three-level technique and soft switch design.
- The active power factor correction(APFC) to make the input PFC can be higher as 0.99.
- The new design make our C series with high energy density ratio, reducethe UPS machine size very much, and also less occupy the space in the server room.
- The digital control make UPS with much more stable system, and also have the well ability of self-defensive and fault diagnosis.
- This series UPS can provide better solution for the different power problems, such as transient voltage sag, damped oscillation, high voltage pulse, surge voltage, harmonic distortion, noise wave interference, frequency fluctuation and others. providing more reliable protection for the application and UPS itself.

Shenzhen UPSEN Electronic CO.,Ltd. www.upsen.net

Technical Specification:

Model	C1K	C1KL	C2K	C2KL	СЗК	C3KL	C6K	C6KL	C10K	C10KL	
Rated Capacity	1KVA	/ 1KW	2KVA	/ 2KW	3KVA	/ 3KW	6KVA	/ 6KW	10KVA	/ 10KW	
				II.	NPUT						
Input Formats					L+	N + PE					
Rated Input Voltage	208 / 220 / 230 / 240 VAC										
Voltage Range	110 ~ 300VAC (110~176VAC, 280~300VAC Power Limited)										
Frequency Range	50 / 60Hz ± 6Hz, ±10Hz (Setable)										
Input Power Factor	≥0.99										
Input Harmonic Distortion	≤3%THD(Linear Load), ≤5%THD(Non-linear Load) PF=0.8 ≤5%THD(Linear Load), ≤8%THD(Non-linear Load) PF=0										
				OL	JTPUT						
Output Formats	L + N + PE										
Output Voltage	208 / 220 / 230 / 240 VAC										
Output Accuracy	±1%										
Output Frequency	AC Mode : Same as AC, Battery Mode: 50 / 60Hz ± 1%										
Output Harmonic Distortion	8	≤1%THD(Linear Load), ≤3%THD(Non-linear Load) PF=0.8 ≤2%THD(Linear Load), ≤5%THD(Non-linear Load) PF=0.8							Load) PF=0		
Output Power Factor	1.0										
Transfer Time	AC Mode to Batt. Mode: 0ms, Inverter Mode to Bypass Mode: 4ms										
Load Capacity	30min@102%~110% load 1min@102%~110% load 30min@102%~110% load 10min@102%~110% load 10min@110%~130% load 10min@110%~130% load 1min@10%~130% load 10min@110%~130% load 10min@110%~130% load 10min@102%~150% load 10					Battery Mode 10min@102%~1 1min@110%~13 10s@130%~150 500ms@>150%	10% load 0% load % load				
				MACHINE	EFFICIENCY						
AC Mode		Efficiency 220VAC	Full Load Efficiency 95.5@220VAC Full Load Efficiency 95.5@220VAC 95.5@220VAC			Maximum Efficiency 95.5%, Full Load Efficiency 95%					
Battery Mode	Full Load Efficiency 89.5@36VAC Full Load Efficiency 89.5@24VAC		Full Load Efficiency 91.5@72VAC Full Load Efficiency 91.5@48VAC		Full Load Efficiency 91.5@96VAC Full Load Efficiency 91.5@72VAC		Maximum Efficiency 95.3%, Full Load Efficiency 94.8%(20pcs Battery)				
				BA	TTERY						
Battery Quantity	7AH*2	36V	7AH*4	72V	7AH*6	96V	7AH*16 / 20	16~20PCS	7AH*16 / 20	16~20PC	
Backup Time				Depend	on User's Req	uirement and	Configuration				
Charge Current	Standard Model: C1K - C10K: 1.0A (Default), Max 2A Adjustable for C1K, C2K, C3K, Max 12A Adjustable for C6K C10K. External Model C1KL - C10KL: 5.0A (Default), Max 12A Adjustable										
				WORKING I	ENVIRONMEN	IT					
Ambient Temperature	0~40℃										
Ambient Humidity	20% ~ 95% (No Condensation)										
Storage Temperature	-15 ~ 60 ℃ (Battery: 0~40 ℃)										
Altitude	<1000m, Derating at above 1000m, Maximum 4000m, Refer to IEC62040										
				DI	SPLAY						
LCD	Working Mode / Load / Battery Power / Input / Output ect.										
				STANDARD 8	CERTIFICAT	ION	- 195				
Standard & Certification	EN / IEC61000, EN / IEC62040, GB / T4943, YD / T1095, TLC ect.										
			11740	PH	YSICAL						
L*W*H	350*1	45*230	410*19	90*325	410*19	90*325	461*200*800	461*200*360	461*200*800	461*200*3	
Weight(KG)	9.5	4.5	19	10	23.5	11	69.5	13.6	70	14.2	
200 W 200				COMUNICAT	ION INTERFA	CE	1				
Interface	1*USB, 1*RS232, 1*EPO										
PARTO CONTESS		- 5	*Product Speci	fications are 9	Jubiect to Chan	ae Without N	lotice				

Century Star 1-10KVA Field of Application:

IT and Network Equipment	Embedded and Automatic Control System	Office and Business Equipment
Computer Server Room	Telecommunication Base Station Automatic Control System Electrical and Railway Signaling Systems Security System Television Broadcast System	Office Computer and Printer Scanner and MPOS



Can Connected with Multiple Battery Pack in Parallel?

Long back up UPS can be freely connected with the battery pack, not only save the space, we also can increase the battery pack's quantity(Max. 15pcs battery pack), to meet the different user's need.





Faster Maintenance:

The long back up model and the standard model use the same PCBA. It is very simple to connect and easy to maintain, so greatly improve the speed and reliability of maintenance, and users can adjust the required parameters through the LCD.





Green Power Design for Energy Saving and Environmental Protection:

- Different power configuration flexibility to achieve a multi-purpose machine, power customized available;
- Selectable digital charger from 1A~12A, match for different appliance;
- Wide input voltage range: 208 / 220 / 230 / 240V for option;
- High efficiency up to 95.5%, lower power loss and save cost;
- Output power factor up to 1.0, as an industry leader, super high load efficiency;
- Green power ECO mode, power efficiency up to 98.5%;
- Smart adjustable setting, support voltage compensation of output to transformer.



Novel Features Upgraded

With three-level technology and soft switching design, minimizes to reduce switching losses and creates a new generation of more reliable and efficient power products.

Higher Power Factor

Input power factor ≥0.99, output power factor up to 1.0, performance with super high load efficiency.

Higher Efficiency

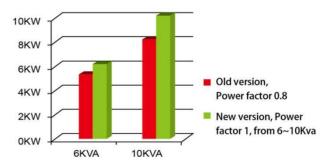
1-10KVA, the maximum efficiency is up to 95.5%. In ECO mode, the efficiency is up to 98.5%, saving energy and electricity for you.

Larger Charging Current

All models of this series can support 1A~12A charging current, and can flexibly configure battery combinations with different capacitances.

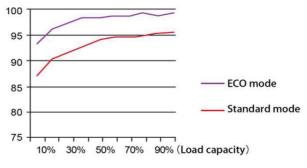
Wider Frequency Adjustment

Frequency can be setup in 50Hz / 60Hz ±10Hz, with wider frequency adjustment range to match the input characteristics of the generator.



The diagram of Loads capacity from 6~10Kva

(Full machine efficiency)



The diagram of 1-10K efficiency under mains supply

Higher Design Standards

All models are designed to comply with standards EN / IEC 61000, EN / IEC 62040, GB / T7260, GB / T4943, TD / T1095, TLC, which greatly reduces the interference to the power grid aused nd the equipment used, and protects the user's equipment well.

Save power

At present, the efficiency of some brands in the market is generally between 80%~93%. Take our Century Star 3KVA and 6KVA as a sample, compared with the model which the efficiency is 90% in the market.

Saving fee per year for 3KVA (0.955 - 0.9)*3000W*24 Hours*365 Day ≈1445Kwh Saving fee per year for 6KVA (0.955 - 0.9)*6000W*24 Hours*365 Day ≈2900Kwh



