

USER MANUAL

ONLINE UPS





20 YEARS MANUFACTURE EXPERIENCE

High Frequency UPS 1~10K(S)

**1.0 POWER FACTOR
LEADING TECHNOLOGY!**

MAX 12 A BIG CHARGE CURRENT



Up to 12A!

Bigger Charge Current

Adjustable Between 1-12A



NOISE,SURGE AND LIGHTNING FULL TIME PROTECTING

Output Short Circuit And Over Load Protections



- Over voltage protection
- Over discharge protection
- Over charge protection
- Over load protection
- High current protection
- Low current protection
- Over temperature protection

VARIOUS VOLTAGE 110V AND 220V OPTIONAL

Voltage suitable for all countries and areas

220V / 230V

50Hz / 60Hz



**Standard Model And Long
Run Model Are Replaceable**

Standard Model And Long Run Model Can Be Use Instead Of Each Other, Convenient For Your Order And Stock Plan

leading PF=1

Features:

- Bigger charge current Maximum **12A**, **charge faster** & Adjustable between 1-12A
- The output **power factor** can reach **1.0**
- **The new topology , high power density circuit** is better for noise and surge protection
- **Shipping cost saving** with it's perfect structure by smaller dimension
- **Efficiency upto 95.5%**, Higher efficiency same power with less electric bill , higher efficiency , same power , same backuptime with smaller battery .

• Standard & long backup are common with same PSDR&Control pcb

helps to reduce stock & easy management

- Output voltage 208V 220V 230V 240V are adjustable
- Pure sine wave output, online zero conversion time
- Wide input frequency range, adjustable from 40-70HZ
- With output short-circuit protection and overload protection
- Using LCD display screen, status parameters are clear at a glance
- RS232 communication interface is applied
- Double-sided circuit board design for higher safety and reliability
- The screen can set various of common technical parameters
- It can be equipped with power monitoring software to enable UPS network and remote monitoring



CQ series 1-10K(S) online UPS selection guide (technical parameters)

Models	CQ1K (S)	CQ2K (S)	CQ3K (S)	CQ6K (S)	CQ10K (S)				
Phase	Single-phase grounding								
Capacity	1000 VA / 1000 W	2000 VA / 2000 W	3000 VA /3000 W	6000 VA / 6000 W	10000 VA / 10000 W				
Input									
Voltage range	110 - 300VAC at 60% load 160 - 300 VAC at 100% load			110 - 300VAC at 50% load 176 - 300 VAC at 100% load					
Frequency range	40Hz ~ 70 Hz								
Power factor	At 100% load ≥ 0.95	At 100% load ≥ 0.97	At 100% load ≥ 0.97	At 100% load ≥ 0.99	At 100% load ≥ 0.99				
Output									
Output voltage	220VAC $\pm 1\%$ (208, 220, 230, 240 adjustable on LCD screen)								
Voltage range (battery mode)	$\pm 1\%$								
Frequency range (Synchronization correction range)	47~ 53 Hz or 57 ~ 63 Hz								
Frequency range (battery mode)	50 Hz (60HZ selectable) ± 0.25 Hz								
Surge ratio	3:1								
THD	$\leq 3\%$ THD (linear load) $\leq 6\%$ THD (non-linear load)								
Transfer time	AC to DC	0ms							
	INV to bypass	4 ms (standard)							
Wave form	Pure sine wave								
Battery									
	Battery model	12V / 7AH optioanal 9AH							
Standard	Quantity	2	4	6	12 optional 16				
	Max. charging current	1.0A (Maximum)			1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A adjustable				
	Charging voltage	27.5VDC $\pm 1\%$	55VDC $\pm 1\%$	82.1 (110) VDC $\pm 1\%$	165 (192.5) VDC $\pm 1\%$ optional 220VDC $\pm 1\%$				
Long-run	Battery model	Depends on the users							
	Quantity	3	6	8	16				
	Max. charging current	1A, 2A ,3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 11A, 12A adjustable							
	Charging voltage	41.0VDC $\pm 1\%$	82.1VDC $\pm 1\%$	110VDC $\pm 1\%$	220VDC $\pm 1\%$				
Appearance									
LCD or LED display	Load size, battery capacity, mains mode, bypass mode, fault indication								
Alarm									
Battery mode	beeping every 4 seconds								
Low battery	beeping every 1 second								
Overload	beeping every 1 second								
Malfunction / Fault	continuous beeping								
Dimensions									
Standard	Dimension (L*W*H)m	352x145x213	395x145x213	450x192x335	450x192x670				
	N.W (KG) for standard	8.8(10.9)	12.1	23.7	29.5(26.7)				
Long-run	Dimension (L*W*H)m	352x145x213	395x145x213	380x145x213	450x192x335				
	N.W (KG)	5.8	6.2	6.8	14.6				
Working environment									
Temperature and humidity	20-90% relative humidity and temperature 0-40°C (non-condensing)								
Noise	less than 50dBA at 1 meter								
Control management									
Smart RS-232	Support Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix								
SNMP optional	Power management supports SNMP management and network management								