

CP Series

10~400KVA

Online UPS low frequency
N+X modularization



Basic Features

With dual conversion true online design and digital technology, this kind of UPS has perfect protection and high reliability.

- 1. Inverter adopts DSP, MCU and DDC digital vector control technology to commend each specification and control them completely.
- 2. Integrating advanced IGBT and PWM to decrease the system noise and wastage of the electric power and to make sure customers can obtain high-quality output voltage and the upmost benefit under various loads.
- 3. Due to dual conversion and pure online sine wave output, the UPS can provide low distortion and pure sine wave power supply and the optimal power guarantee for the users' load devices both on main mode and battery mode.
- 4. It is with output isolation transformer to ensure the load and public electricity to be isolated completely. There is no DC in the load for the UPS with isolation transformer, which can effectively protect computer, network, and communication devices from damaging of DC. Besides, for the nonlinear load, it can improve the load capability of the machine and with good compatibility.
- 5. Automatic frequency /corresponding synchronous function avoid skipping frequency to influence the devices.
- 6. Using the big power IGBT makes the inverter with the strong ability of overload and resistant impact, and enhances the adaptation to the electric environment.

Rectifier input

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Capacity (KW)	8	16	24	32	48	64	80	96	144	180	225	270	360
Single phase max. current(A)	19	38	57	76	114	152	190	228	304	379	475	570	760
Work mode and principle	Supply power online, static by pass switch (0'time transfer), double conversion technology, output isolated completely												
Power factor	0.8/0.9/0.95												
Phase	3 phase + N												
Nominal voltage	380VAC±25%												
Nominal frequency	50/60Hz±10%												
Input current harmonic	< 5%												
Soft start	0~100% 5sec												

Rectifier output

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA	
Max. output voltage	432								446		459			
Microcomputer setting charge current	6~30A(adjustable)													



Inverter

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Rated capacity (KW)	8	16	24	32	48	64	80	96	144	180	225	270	360
Phase	single phase/three phase+ N+G						three phase+ N+G						
Nominal voltage	220/380VAC±1%						380VAC±1%						
Nominal frequency	50/60Hz±0.5%(battery mode)												
Output power factor	0.8/0.9												
Frequency stability: out-sync	< ±0.5%												
Frequency stability: synchronize	< ±2%												
Peak factor	3:1												
Output wave	Sine wave												
Total harmonic distortion	Linear load<3%; Non-linear load<5%												
Dynamic load voltage transient	< ±4%												
Instant recover time	< 10ms												
Balanced load voltage	< ±1%; <±5% (unbalanced load voltage)												
Overload capacity	125%30min,150%1min,>150% 300ms												
Inverter efficiency, load 100%	>93								>96				

Battery

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA	
Max. discharge current(A)	28	56	85	113	169	225	282	338	461	576	700	840	1120	
Number of battery (single group)	12 V32 pcs or 2V192 pcs								12V33pcs or 2V198 pcs		12V34pcs or 2V204 pcs			
Nominal battery voltage	384VDC								396VDC		408VDC			
Float charge voltage	432VDC								446VDC		459VDC			
Charge current	6A~30A(adjustable)													

Bypass

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Phase	single phase/three phase+ N+G						three phase+ N+G						
Nominal voltage	380VAC±15%												
Nominal frequency	50/60Hz±10%												
Inverter/Bypass (transfer time)	0ms												

System

Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA	
Communication interface	Rs232, Rs485, Dry contact, Intelligent Slot													
Work temperature	0~40°C													
Relative humidity	0%~90%(non-condensing)													
Operation altitude (max)	< 1000m (1% power lost as increase 100m, 4000m max.)													
Cool mode	Forced ventilation													
Noise	48~65dB								53~68dB					
MTBF	300000 hours													
Protection grade	IP20													
Cabinet color	White or Black													
Input cable	Button/Rear													
Easy-maintenance	Front/Up/Side													
Dimension W×D×H(mm)	420×800×900				560×700 ×1140		660×800 ×1550		1200×860 ×1680		1800×1200×1900			
Weight (KG)	120	140	175	210	350	400	550	650	1080	1200	1500~2500			
Input component	Connection terminal													
Output component	Connection terminal													

