

## Product introduction

CP Series low frequency UPS which have work with isolation transformer and double conversion pure digital technology , it can N + 1 in parallel Flexible use ,it can provide a stable, cleaner enviroment and supply power this UPS widely using in many areas,such as telecommunications systems, financial Systems, satellite systems, network systems, medical systems, monitoring security systems, factory automation and control systems and so on.

CP low frequency series UPS using advanced IGBT sinusoidal pulse width modulation design and DSP digital control technology, it have ECO section,Mode and EPO emergency shutdown mechanism,.This technology can make the UPS turn to high efficiency,small heat loss,low noise,small size and long time life.it can cut down the average maintain time by using the module design and also the system will become more safe and reliable by using the advanced microprocessors technology.



**10KVA-400KVA**

## High-quality power supply

CP series low frequency UPS with online double conversion technology,it have filter and stable the output voltage of the UPS,so it can output high-quality power supply.

## High reliability and power supply

In general, reducing the number of electronic components can reduce system fault, but by using digital control equipment ,it can greatly improve its reliability.

CP low frequency series,the built-in paremeters is controled by the microprocessor digital , it can improve the reliability and optimize the operation. In a parallel connection, due to vibration or temperature changes ,current may be appear non-balance.

by using digital control technology, we will don't need to adjust it to keep the balance of the current.,CP series low frequency system design retains considerable adjustment space, allowing parallel at any time or different configurations

## High efficiency and low cost

Cp series UPS have the energy-saving mode , the efficiency of up to 98%.in the energy-saving mode, it will start AC model,when the AC Model more than the pre-Set value, the load will switch to the inverter, it can reduce energy waste and cost.

## Suitable for industrial and multiple loads

CP Series low frequency UPS have strength overload capacity, high output isolation, current harmonic distortion characteristics and so on.it is the best choose for industrial application.it also have strong Current charging and suitable for large.

## Personality operation interface

CP series low frequency UPS can be operated with the analog screen.it can provide many important parameters.such as status and alarm,input,output,battery data (power,current,voltage,frequency and temperature) and other set,the alarm system have 128 pcs difference information,it can provide accurate information about the fault which had happend in the UPS.

## Flexible operation

The CP series low frequency UPS with online double conversion technology,it can operate in every model,in addition, n + 1 parallel maximum expanse can contact with 9 piece machine.

## Technical Specification

| Model                   | 33-10K   | 33-20K  | 33-30K    | 33-40K  | 33-60K        | 33-80K  | 33-100K | 33-120K | 33-160K     | 33-200K | 33-300K  | 33-400K |
|-------------------------|--|---------|-----------|---------|---------------|---------|---------|---------|-------------|---------|----------|---------|
| Capacity ( KW )         | 8KW  | 16KW    | 24KW      | 32KW    | 48KW          | 64KW    | 80KW    | 96KW    | 128KW       | 160KW   | 240KW    | 320KW   |
| Work way                | Online supply power , Static bypass switch , double conversion technology  |         |           |         |               |         |         |         |             |         |          |         |
| Phase                   | 3 phase +N+G   |         |           |         |               |         |         |         |             |         |          |         |
| Input voltage           | 380VAC±25%   |         |           |         |               |         |         |         |             |         |          |         |
| Input frequency         | 50Hz±10% , 60Hz±10%  |         |           |         |               |         |         |         |             |         |          |         |
| Soft start              | 0 ~ 100% 5sec  |         |           |         |               |         |         |         |             |         |          |         |
| battery No.             | 32 pcs (40pcs) / 12V   |         |           |         |               |         |         |         |             |         |          |         |
| battery voltage         | 384VDC (480VDC)  |         |           |         |               |         |         |         |             |         |          |         |
| Float voltage           | 405VDC (540VDC)  |         |           |         |               |         |         |         |             |         |          |         |
| Charger current         | 1A ~ 4 0A ( base on your battery capacity )  |         |           |         |               |         |         |         |             |         |          |         |
| Rated power             | capacity×0. 8  |         |           |         |               |         |         |         |             |         |          |         |
| Phase                   | 3 phase +N+G   |         |           |         |               |         |         |         |             |         |          |         |
| Output voltage          | 380VAC±1% ( balance load ) , 380VAC±5% ( non-balance load )  |         |           |         |               |         |         |         |             |         |          |         |
| Output frequency        | 50Hz±0.05% , 60Hz±0.05% ( battery supply power )   |         |           |         |               |         |         |         |             |         |          |         |
| Crest Factor            | 3 : 1  |         |           |         |               |         |         |         |             |         |          |         |
| wave                    | Pure sine wave   |         |           |         |               |         |         |         |             |         |          |         |
| THD                     | linear load < 2% ; non-linear load < 5%  |         |           |         |               |         |         |         |             |         |          |         |
| Dynamic voltage         | < ±5%  |         |           |         |               |         |         |         |             |         |          |         |
| Instant recovery time   | < 10ms   |         |           |         |               |         |         |         |             |         |          |         |
| Balance load voltage    | < ±1% ; < ±5% ( unbalance load voltage )   |         |           |         |               |         |         |         |             |         |          |         |
| Over load               | 125% 1min , 150% 1S  |         |           |         |               |         |         |         |             |         |          |         |
| Inverter efficiency     | >91%   |         |           |         |               |         |         |         |             |         |          |         |
| Transfer time           | 0ms  |         |           |         |               |         |         |         |             |         |          |         |
| Communication interface | Rs232, 485   |         |           |         |               |         |         |         |             |         |          |         |
| work temperature        | 0 ~ 40°C   |         |           |         |               |         |         |         |             |         |          |         |
| Humidity                | 30% ~ 90%  |         |           |         |               |         |         |         |             |         |          |         |
| Altitude                | <1000 meters ( the power will cut down 1% when the altitude add every 100 meters,the max altitude is 4000 meters ) |         |           |         |               |         |         |         |             |         |          |         |
| Noise dB                | 40 ~ 50  | 45 ~ 55 | 55 ~ 65   | 65 ~ 75 | 65 ~ 75       | 65 ~ 75 | 65 ~ 75 | 65 ~ 75 | 65 ~ 75     | 65 ~ 75 | 65 ~ 75  | 65 ~ 75 |
| Product size L×W×H(CM)  | 10-20K   |         | 30-40K    |         | 60-120K       |         | 60-120K |         | 100-200K    |         | 300-400K |         |
|                         | 60.5x40.5x91.5   |         | 82x43x116 |         | 97.5x55.5x129 |         |         |         | 180x110x168 |         | 2200x850 |         |
| Weight (KG)             | 140  | 210     | 280       | 320     | 420           | 490     | 560     | 680     | 2100        | 2200    | 2500     |         |
| Optional                | Parallel module, filter , input Isolation transformer、 Intelligent monitoring software、 SNMP adapter               |         |           |         |               |         |         |         |             |         |          |         |