# CTX3P150~1200
(3 phase input and output)

### High reliability design

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage > 305Vac

### Power saving

- High input power factor, it can be up to 0.99
- Three level inverter topology, the efficiency can be up to 96%

### Parallel redundancy function

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### Flexible battery configuration

- Battery number of each group can be selected from 30 pieces to 50 pieces
- Large charging current can meet the requirement of long time backup

### Strong load capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalance load
- High adaptability for load, it can connect full inductive load or capacitive load

### Compatible with generator

- Power Walk in function, it can reduce the start current impact to system, and it can reduce the capacity of generator.

### LBS function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

### Intelligent management

- Support RS485, SNMP, CAN, dry contact card

## Technical Specifications:

| MODEL | | CTX3P150~1200kVA | | | | |
|---|---|---|---|---|---|---|
| Capacity (VA) | | 150k | 200k | 250k | 300k | 400k |
| UPS Cabinet | | 500k | 600k | 800k | 1000k | 1200k |
| **INPUT** | | | | | | |
| Norminal voltage | | 380/400/415Vac, (3Ph+N+PE) | | | | |
| Operating voltage range | | 138~305 Vactor 40% Load; 305~485Vac for 100% Load | | | | |
| Operating frequency range | | 40Hz-70Hz | | | | |
| Power factor | | > 0.99 | | | | |
| Harmonic distortion (THDi) | | <3% (100% linear load) | | | | |
| Bypass voltage range | | Max. voltage: 220V: +25% (Optional +10%, +15%, +20%); 230V: +20% (Optional +10%, 15%); 240V: 15% (Optional +10%)<br>Min. voltage: -45% (Optional -10%, -20%, -30%) | | | | |
| Bypass frequency range | | Frequency protection range: +10% | | | | |
| Generator input | | Support | | | | |
| **OUTPUT** | | | | | | |
| Rated voltage | | 380/400/415Vac, (3Ph+N+PE) | | | | |
| Power factor | | 1 | | | | |
| Voltage regulation | | +1% | | | | |
| Output frequency | Line Mode | +1%/+2%/+4%/+5%/+10% of the rated frequency (Optional) | | | | |
| | Bat. Mode | (50/60+0.1%)Hz | | | | |
| Crest factor | | 3:1 | | | | |
| Harmonic distortion (THDv) | | <1% with linear load<br><3% with non linear load | | | | |
| Efficiency | | 96% | | | | |
| **BATTERY** | | | | | | |
| Battery voltage | | Optional Voltage: +180V/+192V/+204V/+216V/+228V/+240/+252/+264/ +276/+288/+300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50pcs, 36pcs default, 36 to 50pcs output power factor 1.0; 32~34pcs output power factor 0.9; 30pcs output power factor 0.8;) | | | | |
| Charge Current (A) | UPS Cabinet | 60A (Max.) | 80A (Max.) | 100A (Max.) | 100A (Max.) | 140A (Max.) |
| | | 180A (Max.) | 200A (Max.) | 280A (Max.) | 340A (Max.) | 400A (Max.) |

| SYSTEM FEATURES | | | | | | | |
|---|---|---|---|---|---|---|---|
| Transfer Time | | Utility to battery: 0ms; Utility to bypass: 0ms | | | | | |
| Overload | Line Mode | 110% overload for 60 min; 125% overload for 10min; 150% overload for 1 min | | | | | |
| | Bypass Mode | 135% overload for long term; >1000% overload for 100ms | | | | | |
| Overheat | | Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately | | | | | |
| Low Battery Voltage | | Alarm and switch off | | | | | |
| Self-diagnostics | | Upon power on and sofware control | | | | | |
| Backfeed Protection | | Support | | | | | |
| EPO | | Shut down UPS immediately | | | | | |
| Battery | | Advanced battery management | | | | | |
| Noise Suppression | | Complies with EN62040-3 | | | | | |
| Audible & Visual Alarms | | Line failure, battery low, overload, system fault | | | | | |
| Reading On The LCD Display | | Input, output, battery, command, setting, maintenance | | | | | |
| Communication Interface | | CAN, RS485, NET, Parallel, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional) | | | | | |
| **ENVIRONMENTAL** | | | | | | | |
| Operating Temperature | | 0 C~40 C | | | | | |
| Storage Temperature | | -25 C~55 C | | | | | |
| Humidity Range | | 0~95% (Non Condesing) | | | | | |
| Altitude | | <1500m | | | | | |
| Noise Level (From 1M Distance) | | <62dB | <63dB | <65dB | <70dB | <73dB | |
| **PHYSICAL** | | | | | | | |
| Dimension WxDxH (mm) | UPS Cabinet (S) | 600x850 x1200 | 600x850 x1600 | 600x850 x1200 | 1200x850 x2000 | 1200x850 x2000 | 2400x850 x2000 |
| | UPS Cabinet (F) | | | | | | |
| **STANDARDS** | | | | | | | |
| Safety | | IEC/EN62040-1, IEC/EN60950-1 | | | | | |
| EMC | | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 | | | | | |