

# Crystal Series

CL6000-CL10000  
6~10kVA, 1:1 phase PF 0.9

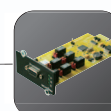


Control Panel

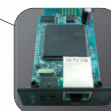
The CL Double Conversion true online Series, featured with DSP-controlled technology, superior input Voltage window for energy ECO mode, parallel capability (for 6KVA, 10KVA), smart fan speed control, optional powerful charger, is an ideal solution to your computer center, network center, communication system, automatic control system or other critical system.

## Features

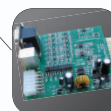
- N+X parallel redundancy
- Online double conversion with DSP control
- Input current harmonic: <3%
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- High output power factor at 0.9PF
- Wide input voltage range: 120~276Vac
- Wide input frequency range (50Hz: 45~55Hz / 60Hz: 54~66Hz)
- Support generator input
- Support economic (ECO) operation mode
- Self-testing when UPS startup
- Options: SNMP card/Relay card/ Parallel card
- Cold start



Relay card



SNMP



Parallel module

Rear Panel



External Battery (Optional)



## Technical Specifications:

| MODEL                           |             | CL6000   | CL10000      |
|---------------------------------|-------------|--|--------------|
| Capacity (VA/Watts)             |             | 6KVA/5.4KW   | 10KVA/9KW    |
| <b>INPUT</b>                    |             |  |              |
| Nominal voltage                 |             | 220/230/240Vac   |              |
| Operating voltage range         |             | 120~276Vac   |              |
| Operating frequency range       |             | 50Hz:45~55Hz;60Hz:54~66Hz (Auto sensing)   |              |
| Power factor                    |             | ≥0.99  |              |
| Bypass voltage range            |             | Max. voltage: 220V: +25%(optional +10%, +15%, +20% )<br>230V: +20% (optional +10%, +15%)<br>240V: +15% (optional +10%)<br>Min. voltage: -45% (optional -20%, -30%) |              |
| ECO range                       |             | Same as the bypass   |              |
| Harmonic distortion (THDi)      |             | <3% (100% linear load)   |              |
| Generator input                 |             | Support  |              |
| <b>OUTPUT</b>                   |             |  |              |
| Rated voltage                   |             | 220/230/240Vac   |              |
| Power factor                    |             | 0.9  |              |
| Voltage regulation              |             | ±1%  |              |
| 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)      |             | ≤2% with linear load<br>≤5% with non-linear load   |              |
| Efficiency                      |             | >93.5%   |              |
| <b>BATTERY</b>                  |             |  |              |
| Battery voltage                 |             | ±96/108/120Vdc (optional)  |              |
| Capacity (Standard unit)        |             | 12V/7Ah/9Ah  |              |
| Typical recharging time         |             | 6~8 hours (to 90% of full capacity)  |              |
| Charging current                |             | 1A(Standard unit); Long run unit Max.current10A(charging current can be set according to battery capacity installed)   |              |
| <b>SYSTEM FEATURES</b>          |             |  |              |
| Transfer time                   |             | Mains to battery:0ms; Mains to bypass:0ms  |              |
| Overload                        | Line mode   | Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately  |              |
|                                 | Bypass mode | 40A(Breaker)   | 63A(Breaker) |
| Short circuit                   |             | Hold whole system  |              |
| Overheat                        |             | Line mode: Turn to bypass; Backup mode: shut down UPS immediately  |              |
| Battery low                     |             | Alarm and switch off   |              |
| Self-diagnostics                |             | Upon power on and software control   |              |
| Battery                         |             | Advanced battery management  |              |
| Audible & Visual alarms         |             | Line failure, Battery under voltage, Overload, System fault  |              |
| LED & LCD display               |             | Line mode, Bat. mode, Eco mode, Bypass mode, Battery under voltage, Overload & UPS Fault   |              |
| LCD display                     |             | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time              |              |
| Communication interface         |             | RS232, USB, SNMP card(optional), Parallel card(optional), Relay card (optional)  |              |
| <b>ENVIRONMENT</b>              |             |  |              |
| Operating temperature           |             | 0 ~ 40°C   |              |
| Storage temperature             |             | -25 ~ 55°C   |              |
| Humidity range                  |             | 0 ~ 95% (Non-condensing)   |              |
| Altitude                        |             | <1500m   |              |
| Noise level                     |             | <55dB  |              |
| <b>PHYSICAL</b>                 |             |  |              |
| Dimension D×W×H (mm)            |             | 502*250*616 (S) /481*220*438 (H)   |              |
| Net weight (kg)                 |             | 62   | 64           |
| <b>STANDARDS</b>                |             |  |              |
| 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  |              |
| <b>BATTERY BANK</b>             |             |  |              |
| Model                           |             | MP-BT Series   |              |
| Battery type & Max. quantity    |             | 2×20pcs/7Ah/(9Ah)  |              |
| <b>PHYSICAL OF BATTERY BANK</b> |             |  |              |
| Dimensions D×W×H (mm)           |             | 597×250×616  |              |
| Net weight (kg)                 |             | 122/134  |              |

