

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

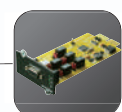
- N+X parallel redundancy
- Online double conversion with DSP control
- Input current harmonic: <3%
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- High output power factor at 0.9PF
- Wide input voltage range: 120~276Vac
- Wide input frequency range (50Hz: 45~55Hz / 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



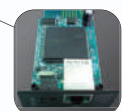
External Battery (Optional)



Rear Panel



Relay card



SNMP



Parallel module



Technical Specifications:

MODEL	CL6000	CL10000
Capacity (VA/Watts)	6KVA/5.4KW	10KVA/9KW
INPUT		
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%) 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min. voltage: -45% (optional -20%,-30%)	
ECO range	Same as the bypass	
Harmonic distortion (THDi)	<3% (100% linear load)	
Generator input	Support	
OUTPUT		
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	
	≤5% with non-linear load	
Efficiency	>93.5%	
BATTERY		
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)	
SYSTEM FEATURES		
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)	
ENVIRONMENT		
Operating temperature	0 ~ 40°C	
Storage temperature	-25 ~ 55°C	
Humidity range	0 ~ 95% (Non-condensing)	
Altitude	<1500m	
Noise level	<55dB	
PHYSICAL		
Dimension D×W×H (mm)	502*250*616 (S) /481*220*438 (H)	
Net weight (kg)	62	64
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	
BATTERY BANK		
Model	MP-BT Series	

