

Crystal Series

CL1000RT-3000RT

1000~3000VA, 1:1 phase PF 0.9, Rack-Tower



Features

- Online Double Conversion UPS
- Rack/Tower Convertible Design
- Patented Minic LCD Display can be rotated
- High power density.
- Comprehensive display allows easy monitoring and access of UPS
- Output power factor up to 0.9.
- Three stage charging mode extends battery life, optimizes recharging time.
- Selectable high efficiency mode of operation.
- Cold start.
- Standard communication options: RS232 communication port, USB communication port, and relay output contacts or SNMP card.
- Power shedding function may turn off uncritical load in battery backup to make longer backup time for critical load.
- Extended runtime with up to four extended battery modules (EBPs) per UPS.
- Emergency shutdown control through the remote emergency power-off (EPO).
- Versatile LCD human-computer interface.



Technical Specifications:

MODEL	CL1000RT	CL1500RT	CL2000RT	CL3000RT	
Capacity (VA/Watts)	1000 / 900	1500 / 1350	2000 / 1800	3000 / 2700	
Phase	Single phase with ground				
INPUT					
Nominal voltage	200/208/220/230/240Vac or 100/110/115/120/127Vac				
Input voltage range	55~150Vac or 110~300Vac @ 60% load, 80~145Vac or 160~300Vac @ 100% load				
Frequency range	45~55Hz/55~65Hz(Auto-detect)				
Power factor	≥0.99 @Nominal voltage(100% load)				
OUTPUT					
Output voltage	200/208/220/230/240Vac or 100/110/115/120/127Vac				
Power factor	0.9				
Voltage regulation	±1%				
Frequency range (Synchronized range)	45~55Hz/56~64Hz				
Frequency range (Batt.mode)	50Hz/60Hz±0.1Hz				
Current crest ratio	3:1				
Harmonic distortion	≤3% THD(Linear load) ≤6% THD(Non-linear load)				
Transfer time	AC to DC	Zero			
	Inverter to bypass	4ms(Typical)			
Waveform	Pure sinewave				
EFFICIENCY					
AC mode	88%	88%	89%	90%	
Battery mode	83%	83%	85%	86%	
BATTERY					
Standard model	Battery type	12V/9AH	12V/9AH	12V/9AH	12V/9AH
	Numbers	2/3	3	4/6	6
	Backup time	Estimated remaining time displayed on the LCD			
	Typical recharging time	4 hours recover to 90% capacity			
	Charging current(max.)	1.0A			
	Charging voltage	27.4Vdc ±1%/41.1Vdc ±1%	41.1Vdc ±1%	54.7Vdc ±1%/82.1Vdc ±1%	82.1Vdc ±1%
Long run model (Only HV model)	Battery numbers	Depending on the capacity of external batteries			
	Charging current(max.)	6A/12A(Double board)			
	Charging voltage	27.4Vdc ±1%/41.1Vdc ±1%	41.1Vdc ±1%	54.7Vdc ±1%/82.1Vdc ±1%	82.1Vdc ±1%
INDICATORS					
LCD	Load level,Battery level,AC mode,Battery mode,Bypass mode,and Fault indicators				
ALARM					
Battery mode	Beeping every 4 seconds				
Battery low	Beeping every second				
Overload	Beeping twice every second				
Fault	Continuously beeping				
PHYSICAL					
Standard model	Dimension,D×W×H(mm)	430×440×86.5		552×440×86.5/ 701×440×86.5	710×440×86.5
	Net weight(kgs)	13.9/16.4	17.8	20.1/25.1	23.3
Long run model (Only HV model)	Dimension,D×W×H(mm)	430×440×86.5		552×440×86.5	
	Net weight(kgs)	8.2		10.9	11.3
ENVIRONMENT					
Humidity	20-90% RH @ 0-40°C (Non-condensing)				
Noise level	<50dB @ 1 Meter				
MANAGEMENT					
Smart RS232/USB	Supports Windows® 2000/2003/XP/Vista/2008 Windows® 7/8 Linux,FreeBSD and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

