

Continuity 1000-3000

Convertible Indoor On-line UPS Series



Your Power Solutions Partner

- Feature rich on-line UPS series with rack/tower convertible design and rotating LCD panel enabling easy integration into a wide variety of applications and locations
- Wide input power frequency and voltage window accommodates broad operating range for different working requirements
- Advanced digital control technology achieves higher reliability and greater immunity from utility power problems
- Emergency shutdown control through EPO complies with national safety regulations and local code
- Programmable receptacles enable flexible power backup
- Powerful built-in charger shortens battery charging time and extends runtime
- Hot swappable battery allows replacement without interruption to critical loads

The Continuity 1000-3000 Series, equipped with field-proven Digital Signal Processor, is the ideal UPS system for Servers, Networks, Storage, Telecommunications and Industrial Equipment.



Alpha Continuity Rack Configuration

Alpha Continuity Tower Configuration

Power



NOMINAL SPECIFICATIONS			
Model	Continuity 1000		Continuity 2000
120Vac P/Ns*	0170009		0170010
Continuity 3000			
0170011			
INPUT			
Voltage Window	60~144Vac for 120V system		60~144Vac for 120V system
Frequency	50/60 ±5% (Auto Sensing)		50/60 ±5% (Auto Sensing)
Phase/Wire	Single, Line + Neutral + Ground		Single, Line + Neutral + Ground
Power Factor	>0.99 (Full Load)		>0.99 (Full Load)
OUTPUT			
Voltage	100/110/115/120/127Vac		100/110/115/120/127Vac
Voltage Regulation	<±1% until low battery warning		<±1% until low battery warning
Capacity	1000VA/800W		2000VA/1600W
Power Factor	0.8* Lagging		0.8* Lagging
Wave Form	Sine Wave, THD<3% (no load to full load)		Sine Wave, THD<3% (no load to full load)
Frequency Stability	±0.1% unless synchronized to line		±0.1% unless synchronized to line
Frequency Regulation	3Hz or 1Hz (Setting by software)		3Hz or 1Hz (Setting by software)
Transfer Time	0 m sec		0 m sec
Crest Factor	3:1		3:1
Efficiency (AC to AC)	>85%		>88%
Autonomy (80% load)	7.9 mins		6.5 mins
DC Start	Yes		Yes
BATTERY			
Type	Sealed Lead Acid Maintenance Free		Sealed Lead Acid Maintenance Free
Capacity	7Ah		9Ah
Quantity	3		6
Voltage	36Vdc		72Vdc
Recharge Time	4 hours to 90%		4 hours to 90%
Built-in Charger (max. charging current)	1.8A		2.7A
PROTECTION			
Overload AC Mode & Backup Mode (delay before switching to bypass)	<105% continuously. >106%~120% for 30 seconds transfer to bypass >121%~150% for 10 seconds transfer to bypass		>150% Buzzer continuously alarms • AC mode: immediately transfer to bypass • Backup mode: immediately shutdown
Bypass Mode	<105% continuously. >106%~120% for 250 seconds shut down >121%~130% for 125 seconds shut down >131%~135% for 50 seconds shut down >136%~145% for 20 seconds shut down >146%~148% for 5 seconds shut down		>149%~157% for 2 seconds shut down >158%~176% for 1 seconds shut down >177%~187% for 0.32 seconds shut down >188% for 0.16 seconds shut down Buzzer continuously alarms
Overheat	AC Mode: Switch to Bypass; Backup Mode: UPS shuts down immediately		
Battery Low	Alarm and Switch Off		Alarm and Switch Off
EPO	UPS shuts down immediately		UPS shuts down immediately
Battery	Advanced Battery Discharge Management (ABDM)		
Noise Suppression	115V System	400 Joules	400 Joules
	230V System	300 Joules	300 Joules

*Consult your Alpha representative for 230Vac P/Ns

Alpha Technologies Ltd.

For more information visit www.alpha.ca

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233

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United States: Bellingham, Washington T: 360.647.2360 F: 360.671.4936

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Model	Continuity 1000		Continuity 2000		Continuity 3000	
DISPLAY						
LCD	Normal, Battery, Bypass, Programmable Outlet 1, Programmable Outlet 2, Self-Test, Battery Weak & Bad, Site Wiring Fault, Fault Overload, and Load/Battery Level conditions.					
Key	On button/Off button (Test / Alarm silence button)					
Self-Diagnostics	Upon Power On and Software Control					
Communication Slots	Relay contact board or SNMP card					
ALARMS						
Audible & Visual	Line Failure, Battery Low, Overload, System Fault Conditions					
MECHANICAL						
Dimensions	mm	440W x 88H x 405D	440W x 88H x 650D	440W x 88H x 650D	440W x 88H x 650D	440W x 88H x 650D
	inches	17.3W x 3.5H x 16D	17.3W x 3.5H x 25.6D	17.3W x 3.5H x 25.6D	17.3W x 3.5H x 25.6D	17.3W x 3.5H x 25.6D
Input Connector	5-15P		5-20P		L5-30P	
Outlets 120Vac	6 x NEMA 5-15R		2x5-15R + 2 x 5-20R		4x5-15R + 1xL5-30R	
Outlets 230Vac	6 x IEC320-C13		6 x IEC320-C13		4 x IEC320-C13 1 x IEC320-C19	
Net Weight	15.1kg (33.3lbs)		27.9kg (61.5lbs)		29.7kg (65.4lbs)	
ENVIRONMENT						
Operating Temperature	0-40°C (32-104°F)		0-40°C (32-104°F)		0-40°C (32-104°F)	
Altitude	0-1000m/3300ft without deriding					
Humidity	90% RH Maximum, Non-Condensing		90% RH Maximum, Non-Condensing		90% RH Maximum, Non-Condensing	
Noise	<50dB (at 1m/3.3ft)		<50dB (at 1m/3.3ft)		<50dB (at 1m/3.3ft)	
BTU/hr	124		247		371	
COMPUTER INTERFACE						
Interface Type	Standard RS232 and USB		Standard RS232 and USB		Standard RS232 and USB	
Communication Slot	Dry Contact Card or SNMP card		Dry Contact Card or SNMP card		Dry Contact Card or SNMP card	
AGENCY COMPLIANCE						
Safety Standard	EN62040-1 complied		EN62040-1 complied		EN62040-1 complied	
Performance	EN62040-3 complied		EN62040-3 complied		EN62040-3 complied	
EMC Standard	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A					
Marks	CE**, UL, cUL, FCC					
BATTERY PACK						
Model	BP Continuity 1000		BP Continuity 2000		BP Continuity 3000	
P/Ns	0320004-001		0320005-001		0320006-001	
Battery Type	7Ah		7Ah		9Ah	
Output Voltage	36Vdc		72Vdc		72Vdc	
Battery Quantity	12pcs		12pcs		12pcs	
Unit Weight	38kg (83.8lbs)		38kg (83.8lbs)		44.6kg (83.8lbs)	
Dimensions	mm	88H x 440W x 650D	88H x 440W x 650D	88H x 440W x 650D	88H x 440W x 650D	88H x 440W x 650D
	inches	3.5H x 17.3W x 25.6D	3.5H x 17.3W x 25.6D	3.5H x 17.3W x 25.6D	3.5H x 17.3W x 25.6D	3.5H x 17.3W x 25.6D

*Based on load (%) - 0-33/33-66/66-100% respectively.

**CE applies to 230Vac units only. Specifications are subject to change without prior notice.

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Rack/Tower Design

Enables integration into a wide variety of environments.
Optional rack-mount rail available.

Advanced Digital Control Technology

Achieves higher reliability and greater immunity from Utility power problems to the connected load.

Wide Input Frequency and Voltage Windows

A wide input frequency window from 45Hz to 65Hz and a voltage input window of 60-144Vac for 120Vac for 120Vac system.

Unity Input Power Factor

Meets today's industry standard for energy saving and low current harmonic pollution to the Utility.

Double Conversion On-line Technology

Completely re-generates the Utility Power to correct power disturbances in the Mains. The unit provides clean AC power with VFI (Voltage and Frequency Independent) from the Utility.

User Friendly Display

An easy-to-read LCD/LED display provides real-time indication of all major system parameters and system status including load level, battery level, bad battery, site wiring fault, overload and programmable outlet for easy service.

Emergency Shutdown Control Through EPO

Allows users to shut down the UPS completely in an emergency to ensure a safe operating environment.

Powerful Built-in Charger

Provides approximately 0.3C charging ability to re-charge internal battery to 90% in 3 hours.

Programmable Receptacles

Remote Reboot and Load Shedding via software reserving back-up power for critical loads.

Hot Swappable Battery

Allows battery replacement without UPS or critical load interruption.

The Communication Software

The bundled communication software allows the control of the UPS and graceful shutdown when Utility fails.

Users Can:

- Remotely test the major operating functions of the UPS,
- Communicate via SNMP/Web/Network adapter,
- Access UPS functions via the Web,
- Alert users via SMS messages against specific events.

Customer Options Slot

The Options Slot allows further flexibility in Network configuration. An internal 2nd RS232 card, 2nd USB card, SNMP card or Dry Contact card provide isolated contacts for industrial and remote alarm panel application.

Downloadable Setting Tool

Voltage Configuration, UPS Mode Selection, Output Voltage Fine Tuning, Bypass Voltage Window, Frequency Synchronized Window and Programmable Outlet Setting can be re-configured by the setting tool.

Extended Runtime Capability

Enables users to connect additional battery banks by simply plugging in the battery connectors between the UPS and battery banks without requiring additional chargers.

Optional External Bypass Switch

Ensures continuous supply of power to the critical load in the event of electronic failure, overload, over-temperature, or scheduled maintenance.

RS232 and USB Communication Interfaces

The advanced technology allows the RS232, USB and SNMP slot to be activated simultaneously.

Super Compact Convertible Design

With a most compact 2U design, the UPS occupies less space in a 19" rack cabinet. The convertible design enables integration into a wide variety of environments.

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