



Power

Alpha Continuity 6K-10K

Indoor On-line UPS Series

True Double Conversion On-line Technology

The Alpha Continuity 6K-10K Series completely regenerates utility power. It not only corrects and cleans the utility power, but the VFI (Voltage Frequency Independence) of the Alpha Continuity 6K-10K Series complies with the international EN62040-3 standards.

Dual Input Connections

The Alpha Continuity 6K-10K Series provides single input connections as standard. Optional input terminal connections for the bypass and rectifier are available.

LCD/LED Mimic Panel

A precise LCD/LED display provides real time status and parameter readings. These include AC Input and Output Voltage, Frequency, Battery Voltage, Load Level, UPS temperature, etc. A full size, user-friendly microprocessor based LCD display, provides advanced monitoring functions and simple operation.

Energy-efficient UPS

The AC to AC efficiency of the Alpha Continuity 6K-10K Series may be up to 90% at 25% load and higher with larger loadings in normal VFI (Voltage and Frequency Independent) operation. Using the ECO mode, an efficiency of up to 97% can be achieved.

Simple and Easy To Use

The LCD front panel provides direct access to the DSP controller. Changes to the UPS operational modes and parameters such as output voltage settings, fine adjustments for frequency, bypass voltage settings as well as alarms status may be easily performed.

Emergency Power Off

The Emergency Power Off enables users to remotely shutdown the UPS.

Smart ECO Mode

Energy Saving using ECO mode.

Matching Battery Cabinet

Add matching battery cabinets and extend the back up time up to several hours.

Power Range and Runtime Scalability

The Alpha Continuity 6K-10K Series provides an excellent return on your investment. The system is fully modular and allows you to increase the overall power output, battery runtime, and redundancy as your needs and requirements grow. The modular design eliminates any single point of failure.

Optional Galvanic Isolation Transformer

The Optional Galvanic Transformer provides isolation between the input and the output of the UPS and various secondary voltage 110/115/120/208/220/230/240Vac.

Parallel Distribution Box

The Alpha Continuity 6K-10K Series automatically manages the End-Discharge voltage of the internal batteries according to the load. The ABDM function prevents the deep discharge of the batteries during a power failure.

Silent Fan Control

The Alpha Continuity 6K-10K Series employs variable-speed, forced air cooling fans. These fans will vary in speed according to the percentage of load. This variable-speed control ensures a low audible noise level making the Alpha Continuity On-line UPS Series suitable for most environments including offices and hospitals.

Communication Capability

The Alpha Continuity 6K-10K Series is shipped with monitoring and shutdown software. The software allows the control and graceful shutdown when utility power fails.

Remote testing of the major operating UPS functions

Communicate via SNMP/WEB card.
Access UPS functions via the WEB.

Super Compact Convertible Design

The Alpha Continuity 6K-10K Series is small and compact. Install the UPS in a 19" rack and utilize the space efficiently. Optional rack mount rail available.

Variety of Customer Options Slots

The Alpha Continuity 6K-10K Series also provides one or two additional Customer Options Communication slot(s) in addition to the standard RS232. An internal 2nd RS232, USB, RS485, Dry Contact, or WEB/SNMP card provides isolated contacts for industrial and remote alarm applications.

Optional External Battery Charger

With its isolation conversion technology plus precision control, the optional charger can be installed in Parallel operation up to 4 units. Customer to supply 5-15R receptacle. The specifications are as follows:

AC Input Range	100-280Vac, 45-65Hz
Maximum Power Output	1000W, continuously
Operation Mode	Constant Voltage with Current Limitation
Maximum Parallel Units	Up to 4 units
Protections	Over-voltage, Against Output Short-Circuit & Isolated devices for Opposite Polarity Connection
Mounting	Mounted on the rear of the UPS or the wall
Dimension	mm 282H x 166W x 86D
Net Weight	3.2kg



Alpha Continuity Rack Configuration



Alpha Continuity Tower Configuration

- > Feature rich On-line UPS Series with superior output power factor, enabling energy efficient system performance
- > Simple parallel installation simplifies the setup of N+1 redundant systems
- > Up to 4 units working in parallel increases potential power output capacity
- > Smart ECO mode allows automatic transfer to inverter supply, maximizing efficiency
- > LCD / LED display panel provides user-friendly interface to UPS
- > Emergency shutdown control through EPO complies with national safety regulations and local code
- > Hot swappable battery allows replacement without interruption to critical loads

The Alpha Continuity Indoor 6K-10K Series with full-time Digital Signal Processor control technology is the perfect solution for mission critical users who demand high reliability, availability and performance from a UPS. Input power factor correction, high efficiency and parallel redundant capability provide a superior level of power quality for sensitive electronic equipment and computer loads.

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(10/2013)

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Alpha Continuity 6K-10K Series

Specifications			
Models	Continuity 6K		Continuity 10K
Input			
Voltage Window	160~280Vac		
Frequency	45-65Hz		
Phase/Wire	Single, Line + Ground		
Power Factor	Up to 0.99 at 100% Linear Load		
Current THD (100% linear load)	<7%		
Output			
Voltage Window	200/208/220/240Vac		
Voltage Adjustment	Nominal +1%, +2%, +3%, -1%, -2% or -3%		
Voltage Regulation	±1%	±2%	
Capacity	6000VA/5400W	10000VA/9000W	
Rated Power Factor	0.9 Lagging	0.9 Lagging	
Wave Form	Sine Wave, THD<3% (no load to full load)		
Frequency Stability	±0.2% (Free Running)		
Frequency Regulation	±1Hz; ±3Hz		
Transfer Time	0ms		
Crest Factor	3:1		
Efficiency (AC to AC, Normal)	Up to 90%		
Efficiency (AC to AC, ECO)	Up to 95%		
Autonomy	≥5 min with Battery Pack(s)		
DC Start	Yes		
Battery			
Type	Sealed Lead Acid Maintenance Free		
Capacity	12V/7Ah	12V/9Ah	
Quantity	20pcs		
Voltage	240Vdc		
Recharge Time	4 hours to 90%	5 hours to 90%	
Display			
Status On LED + LCD	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, Transferring with interruption & UPS Fault.		
Readings on LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature.		
Self-Diagnostics	Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking		
Alarms			
Audible and Visual	Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions		
Protection			
Overload (w/simulated thermal tripping I-T Curve)	Inverter Supply: 105%~150% for 160 seconds ~ 2 cycles before switching bypass. Bypass Supply: 105%~200% for 500 seconds ~8 cycles before stopping supply load.		
Short Circuit	Switch off Immediately		
Overheat	AC Mode: Switch to Bypass Backup Mode: Switch off the UPS		
Battery Low	Alarm and Switch Off		
Noise Suppression	Complies with EN62040-2		
Spike Suppression	Complies with EN61000-4-5		
Heat Dissipation (At Full Linear Load)	Without Isolated Transformer Module	<450W	10K: <600W 10KP: <550W
	With Isolated Transformer Module	<615W	10K: <1100W 10KP: <1050W
Leakage Current	<3mA at Full Load		

Models	Continuity 6K	Continuity 10K
Mechanical		
Dimensions	mm	88H x 440W x 735D
Input/Output Connection	Hardwire	
External Battery Connection	Plug-in & Play	
Net Weight	22kg	30kg
Environment		
Operating Temperature	0-40°C	
Temperature Warning	The battery design life is based on a temperature of 25°C, Ambient temperature above this range will affect battery life	
Altitude	0~2000M up to 40°C, 3000M up to 35°C	
Humidity	90% RH Maximum, Non-Condensing	
Noise	<50dB (at 1 Meter)	
Computer Interface		
Interface Type	Standard RS232 Interface	
Communication Slot	2nd RS232, USB, RS485, Relay Contact or SNMP Card	
Agency Compliance		
Quality Assurance	ISO9001 Certified	
Safety Standard	EN62040-1-1, UL1778	
EMC Standard	EN62040-2, EN61000-3-2, EN61000-3-3, FCC Class A	
Marks	CE	

Battery Pack		
Model	BP Continuity 6K	BP Continuity 10K
Battery Type	7Ah	9Ah
Maximum Quantity	20pcs	
Output Voltage	240Vdc	
Weight Without Batteries	18.0kg	
Weight With Batteries	68kg	70kg
Dimensions	mm	132H x 440W x 680D

(Specifications are subject to change without prior notice)

Parallel Redundant On-Line UPS
Using our field proven Digital Signal Processor(DSP) with SMD techniques, the Alpha Continuity 6K-10K Series achieves high reliability and greater immunity from utility power problems. The front display panel provides all major systems parameters and operational status of the UPS that include full diagnostics for simple, easy servicing. The Alpha Continuity 6K-10K Series uses a patented inverter control technology that allows it to achieve N+1 scalable redundant power without the use of additional components. The Alpha Continuity Redundant parallel configuration also eliminates any single point of failure.

Simple Parallel Installation
To increase the power capacity or configuring a parallel redundant UPS system, up to 3 additional Alpha Continuity 6K-10K Series are simply interconnected using the CAN-bus RJ45 cables on the rear of the Continuity Redundant series UPS.

Programmable Frequency Converter
The Alpha Continuity 6K-10K Series may be used as a frequency converter. Simple programming through the front LCD panel provides the convenience of 50 or 60Hz.

Intelligent Self-Diagnostics
The Alpha Continuity 6K-10K Series with DSP Control, systematically checks each component and displays the result using on LCD display. This feature allows service technicians the ability to pinpoint and repair the UPS very quickly.

High Input Power Factor and Low Current THD
The Alpha Continuity 6K-10K Series provides a 'clean' rectifier connection to utility source. It meets today's industry standard for energy saving with low reflected harmonic pollution to utility. The Alpha Continuity 6K-10K Series achieves up to 0.99 Input Power Factor as well as <6% Input Current THD.

Cold Start Function
The Alpha Continuity 6K-10K Series may be powered up without the presence of utility, providing AC power for immediate power requirements.

Full-time Digital Signal Processor Control
The Alpha Continuity Redundant Full Time DSP control system ensures a pure sine wave on the input and the output of the UPS. The DSP control also provides the user with simple access to the UPS systems' operational information via the front display panel.