

Power

Alpha Continuity Plus 6K-10K

Single Phase On-line UPS Series with PF 1.0

NEW: Power Factor 1.0

True Double Conversion On-line Technology

The Alpha Continuity Plus 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 Plus 6K-10K Series complies with the international EN62040-3 standards.

Dual Input Connections

The Alpha Continuity Plus 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 Plus 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 Plus 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.

Parallel Distribution Box

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

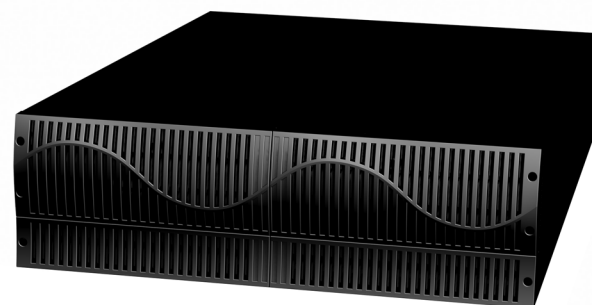
Variety of Customer Options Slots

The Alpha Continuity Plus 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



External Battery Pack Continuity Plus 6000 and 10000



Alpha Continuity Plus 6000 Rack Configuration



Alpha Continuity Plus 10000 Tower Configuration

- > NEW: Power Factor 1.0
- > 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
- > 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 Plus 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.

Alpha Continuity Plus 6K-10K Series

Specifications			
Models	Continuity Plus 6K	Continuity Plus 10K	
Input			
Voltage Window	160 to 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/6000W	10000VA/10000W	
Rated Power Factor	1.0		
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 91%		
Efficiency (AC to AC, ECO)	Up to 96%		
Autonomy	>=5 min with Battery Pack(s)		
DC Start	Yes		
Battery			
Type	Sealed Lead Acid Maintenance Free		
Capacity	12V/9Ah		
Quantity	20pcs in Battery Packs		
Voltage	240Vdc		
Recharge Time	5 hours to 90%		
Built-in Charger (max. Charging Current)	2,1A		
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	<600W
	With Isolated Transformer Module	<615W	<1100W

Leakage Current	<3mA at Full Load		
Models	Continuity Plus 6K	Continuity Plus 10K	
Mechanical			
Dimensions	mm	88H x 440W x 680D	132H x 440W x 685D
Input/Output Connection	Hardwire		
External Battery Connection	Plug-in & Play		
Net Weight	24kg	26kg	
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 Plus 6K, 10K
Battery Type	9Ah
Maximum Quantity	20pcs
Output Voltage	240Vdc
Weight Without Batteries	18.0kg
Weight With Batteries	63kg
Dimensions	mm 132H x 440W x 685D

(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 Plus 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 Plus 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 Plus 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 Plus 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 Plus 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 Plus 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 Plus 6K-10K Series achieves up to 0.99 Input Power Factor as well as <7% Input Current THD (<30% model 10KP).

Cold Start Function

The Alpha Continuity Plus 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 sinewave 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.



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